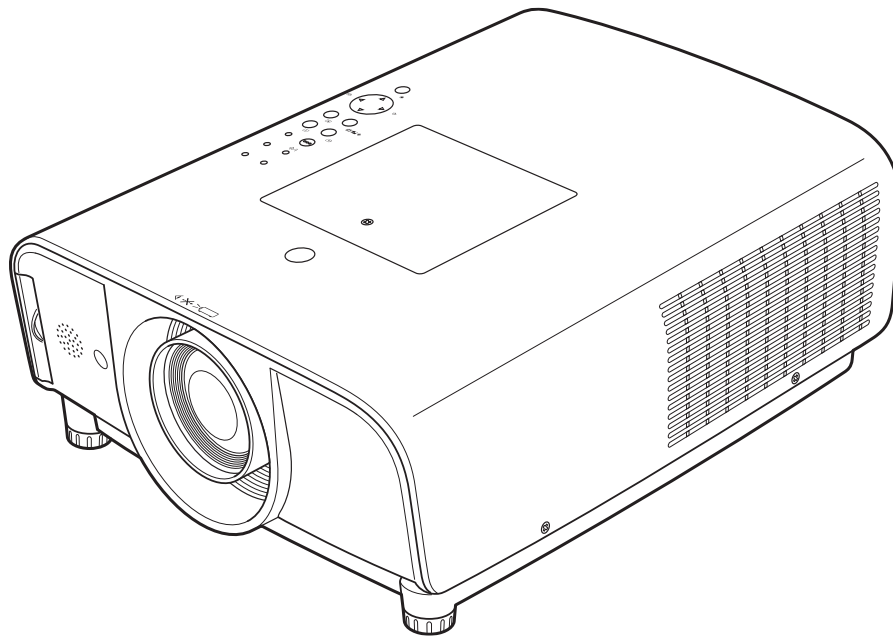


SERVICE MANUAL

Multimedia Projector

Model No. **PLC-XT25**
PLC-XT25L
PLC-XT20
PLC-XT20L
 U.S.A, Canada,
 Europe, U.K, Asia

Original Version



* PLC-XT25L, PLC-XT20L— without Projeccton Lens.

Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.
 If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

Chassis No. MZ7-XT2500
MZ7-XT25L00
KC6-XT2000
KC6-XT20L00

RoHS

- This product does not contain any hazardous substances prohibited by the RoHS Directive. (You will find "RSF" mark near the rating plate on the RoHS compliant product.)

WARNING

- You are requested to use RoHS compliant parts for maintenance or repair.
- You are requested to use lead-free solder.

PRODUCT CODE

PLC-XT25	PLC-XT25L	PLC-XT20	PLC-XT20L
1 122 248 00	1 122 248 20	1 122 320 00	1 122 320 20
1 122 255 00	1 122 255 20	1 122 321 00	1 122 321 20
1 122 255 02	1 122 255 22	1 122 321 02	1 122 321 22


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Safety Instructions

Safety Precautions

WARNING:

The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line () in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjust-


ment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

Product Safety Notice


Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark  in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

Service Personnel Warning

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing. Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages (15kV - 25kV) at its starts. Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

DO NOT ATTEMPT TO SERVICING THE REMOTE CONTROL UNIT.

Laser Beam may be leaked out when in disassemble the Unit. As the Laser Beam used in this Remote control unit is harmful to the eyes.

CAUTION
LASER RADIATION
DO NOT STARE INTO BEAM
 MAX. OUTPUT: 1mW
WAVE LENGTH: 650±20nm
CLASS II LASER PRODUCT
This product is complied with 21 CFR
part 1040.10

LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
LASER-STRAHLUNG
NICHT IN DEN STRAHL BLICKEN
LASER KLASSE 2
レーザ放射クラス2レーザ製品
ビームをのぞき込まないこと
IEC60825-1, Am. 1 1997
MAX OUTPUT (最大出力) : 1 mW
WAVE LENGTH (波長) : 650±20nm

Specifications

Mechanical Information

Projector Type	Multi-media Projector
Dimensions (W x H x D)	13.7" x 6.46" x 17.48" (348.1 mm x 164 mm x 444 mm) (Not including adjustable feet)
Net Weight	5.7 lbs (2.6 kg)
Feet Adjustment	0° to 5.0°

Panel Resolution

LCD Panel System	1.0" TFT Active Matrix type, 3 panels
Panel Resolution	1,024 x 768 dots
Number of Pixels	2,359,296 (1,024 x 768 x 3 panels)

Signal Compatibility

Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M, and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i, and 1080i
Scanning Frequency	H-sync. 15 kHz–100 kHz, V-sync. 50 Hz–100 Hz

Optical Information

Projection Image Size (Diagonal)	Adjustable from 30" to 300" (PLC-XT25/PLC-XT20)
Throw Distance	3.9'–32.8' (1.2 m–10.0 m)
Projection Lens	F=1.7 to 2.1, f=33 to 43 mm with manual zoom and focus
Projection Lamp	300 W

Interface

Input 1	Digital (DVI-D) x 1, Analog (Mini D-sub 15 pin) x 1
Input 2	BNC Type x 5 (G or Video/Y, B or Cb-Pb, R or Cr-Pr, HV and V)
Input 3	RCA Type x 1, Mini DIN 4 pin x 1
AUDIO IN	Audio 1 (Mini Type stereo), Audio 2 (Mini Type stereo), Audio 3 (RCA Type) x 2
Analog Out	Mini D-sub 15 pin x 1
Audio Out	Audio (Mini Type stereo) x 1
R/C Jack	Mini Type (Wired Remote) x 1
Control Port	Mini DIN 8 pin x 1
USB Connector	USB Series B x 1
Option	PJ-Net Organizer Terminal x 1

Audio

Internal Audio Amp	1.0 W RMS
Built-in Speaker	1 speaker, ø1.0" (25 mm)

Power

Voltage and Power Consumption	AC 100–120 V (4.6A Max. Ampere), 50/60 Hz (The U.S.A and Canada) AC 200–240 V (2.3A Max. Ampere), 50/60 Hz (Continental Europe and The U.K.)
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Operating Environment

Operating Temperature	41°F–95°F (5°C–35°C)
Storage Temperature	14°F–140°F (-10°C–60°C)

Remote Control

Battery	AAA or LR03 Type x 2
Operating Range	16.4' (5 m/±30°)
Dimensions	1.8" (W) x 1.0" (H) x 5.7" (D) (45 mm x 25 mm x 145 mm)
Net Weight	3.5 oz (99 g) (including batteries)
Laser Pointer	Class II Laser (Max. Output: 1 m W/Wave length: 640–660 nm)



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

Circuit Protections

This projector provides the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

Fuse

A fuse is located inside of the projector. When the POWER indicator is not lightening, the fuse may be opened. Check the fuse as following steps.

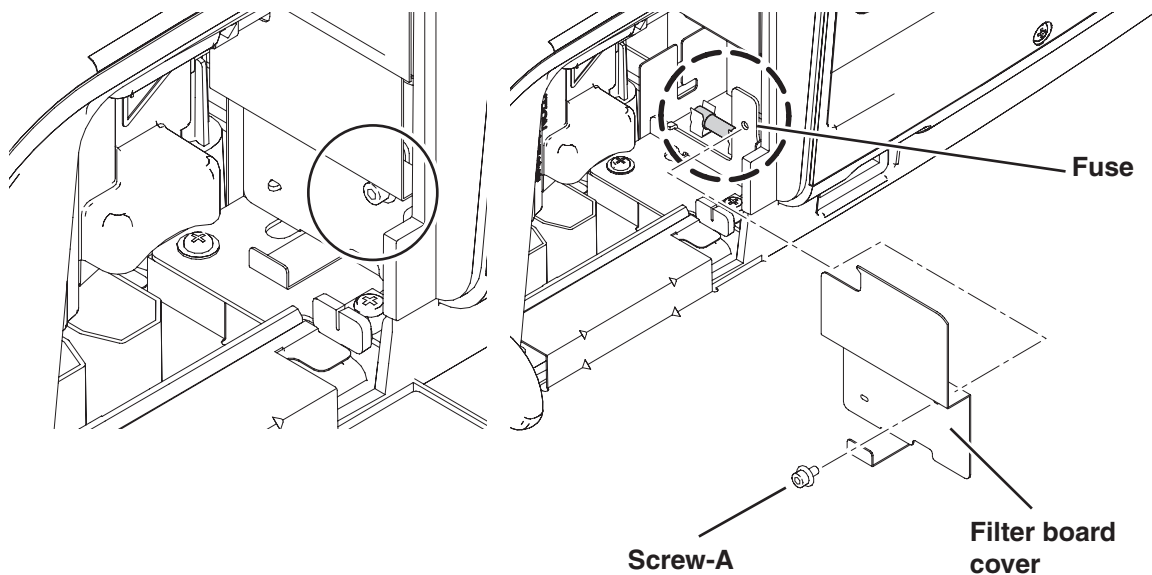
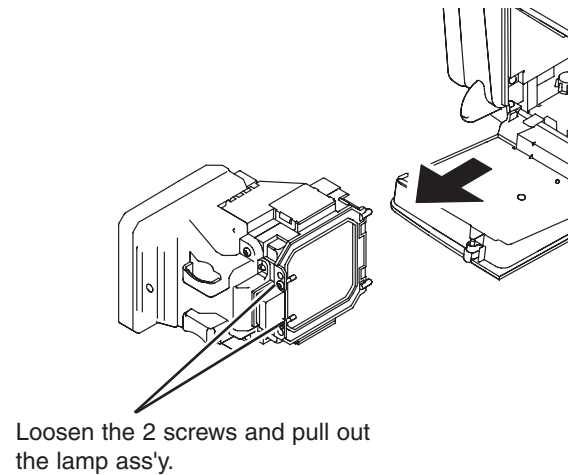
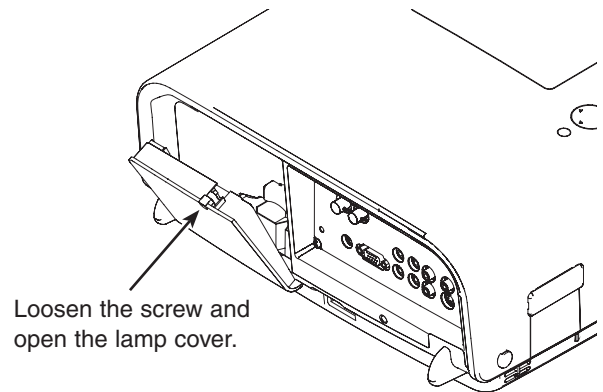
The fuse should be used with the following type;

Fuse Part No. : 645 090 3144
TYPE T10.0AH 250V FUSE
SKY-GATE : TYPE SG5013010

How to replace the fuse

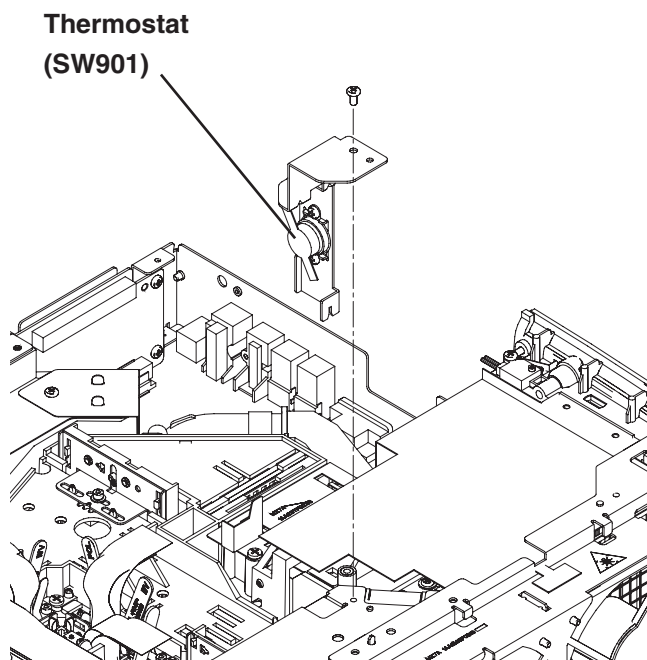
1. Loosen the screw of the lamp cover and open the lamp cover.
2. Loosen 2 screws of lamp ass'y and pull out the lamp ass'y.
3. Remove the screw-A and remove the filter board cover following to "Mechanical Disassemblies".
4. Remove the fuse from fuse holder on the Power(Filter) board .

To install the fuse, take reversed step in the above.
cvx



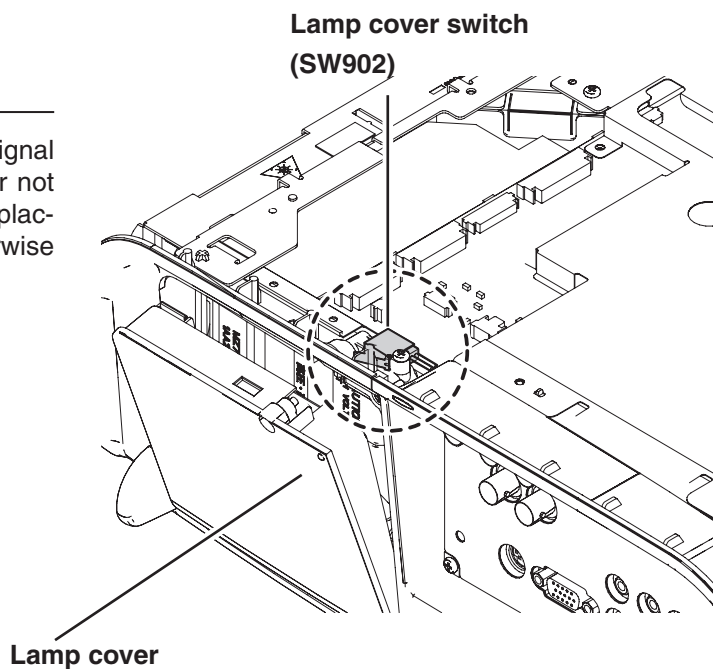
Thermostat (SW901)

There is the thermostat (SW901) inside of the projector to detect the internal temperature rising abnormally. When the internal temperature reaches near 100°C, the thermostat opens to stop the operation of the power supply circuit. The thermostat will automatically return to normal condition when the internal temperature becomes normal (about 60°C).



Lamp cover switch (SW902)

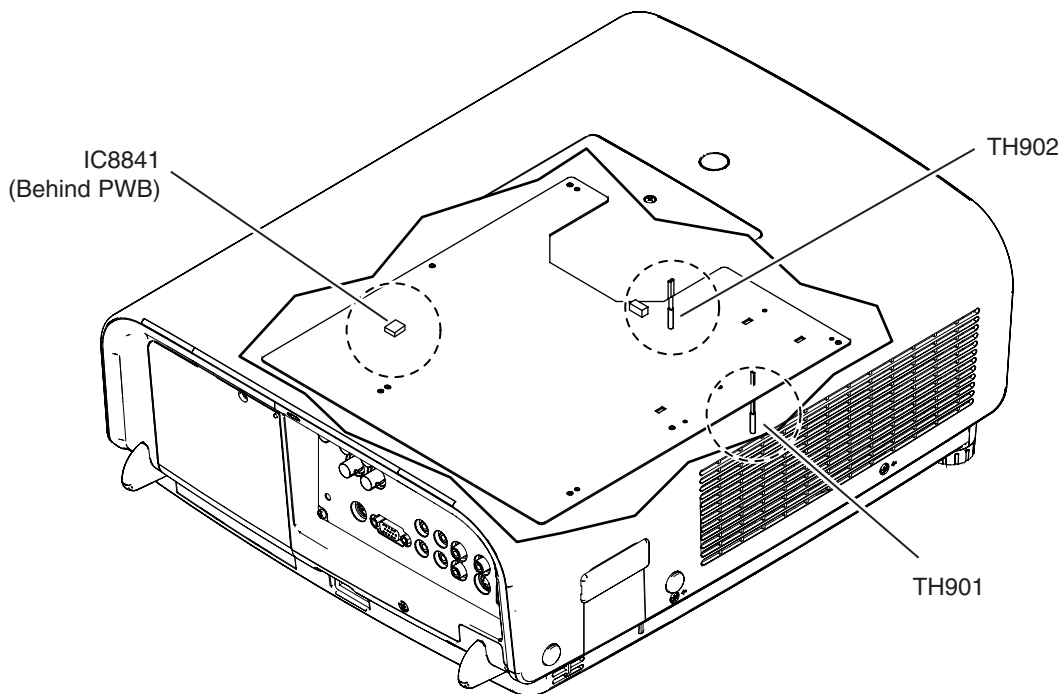
The lamp cover switch (SW902) cuts off the drive signal to the lamp circuit when the lamp cover is removed or not closed completely. After opening the lamp cover for replacing the lamp ass'y, place the lamp cover correctly otherwise the projector can not turn on.



Temperature sensors (TH901, TH902, IC8841)

The projector provides a temperature sensor IC on the Main board and 2 thermistors. The temperature sensor IC monitors around the lamp house, the thermistors are placed on the blue panel holder and on the intake duct.

- Internal temperature sensor A (IC8841) (around the lamp house)
- Panel sensor B (TH902) (around the blue panel)
- Room temperature sensor C (TH901) (around the intake duct)



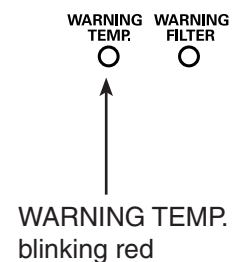
The projector is shut down and the WARNING TEMP. indicator is blinking red.

When the temperature inside the projector reaches a certain level, the projector will be automatically shut down to protect the inside of the projector. The POWER indicator is blinking while the projector is being cooled down. When the projector has cooled down enough (to its normal operating temperature), it can be turned on again by pressing the ON/STANDBY button.

✓ **Note:**

- The WARNING TEMP. indicator continues to blink even after the temperature inside the projector returns to normal. When the projector is turned on again, the WARNING TEMP. indicator stops blinking.

Top Control



Power failure and fan lock detection

The projector provides the detection circuits of the power failure and the fan lock. When the detection circuit detects an error at the power supply line or at the fan operation circuit, the projector will turn into the standby mode to protect the other circuits defective.

The projector is shut down and all five indicators are blinking.

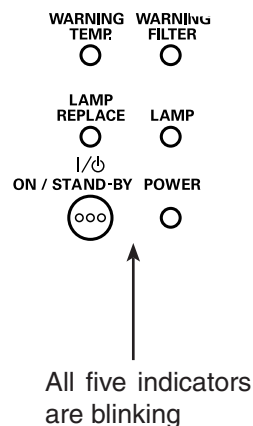
When the projector detects an abnormal condition, it will be automatically shut down to protect the inside of the projector and all five indicators on the top panel blink. In this case, unplug the AC power cord and plug it, and then turn on the projector once again to verify operation. If the projector cannot be turned on and these indicators are still blinking, unplug the AC power cord.



CAUTION

DO NOT LEAVE THE PROJECTOR WITH THE AC POWER CORD CONNECTED UNDER AN ABNORMAL CONDITION. IT MAY RESULT IN FIRE OR ELECTRIC SHOCK.

Top Control



Maintenance

Cleaning the Air Filter

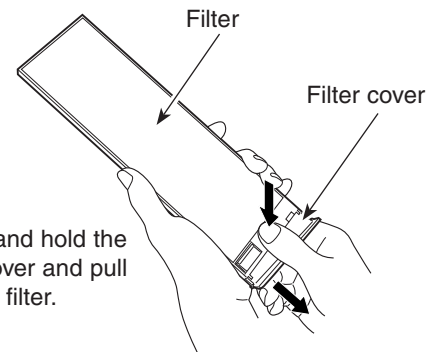
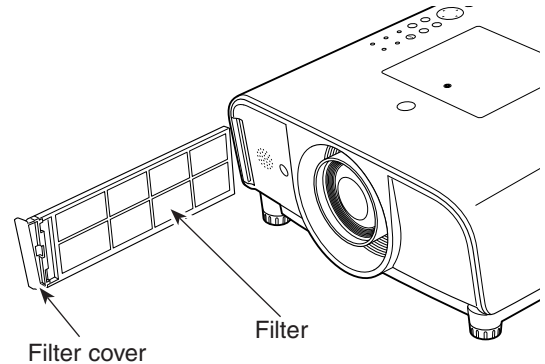
Filter prevents dust from accumulating on the optical elements inside the projector. Should the filter becomes clogged with dust particles, it will reduce cooling fans' effectiveness and may result in internal heat buildup and adversely affect the life of the projector. If a "Filter warning" icon (yellow or red) appears on the screen and the WARNING FILTER indicator lights or blinks, clean the filter by following the steps below.

- 1 Turn off the projector, and unplug the AC power cord from the AC outlet.
 - 2 First, clean up the dust on the projector and around the air vents.
 - 3 Pull out the filter cover from the projector and then remove the filter.
 - 4 Gently clean the filter by using a brush or blower.
- WARNING: Do not wash the filter with water and any other liquid matter. Otherwise the filter may be damaged.**
- 5 Reinstall the filter into the projector properly.
 - 6 Reset the filter counter in the Setting Menu. See "Resetting the Filter Counter" below.



CAUTION

Do not operate the projector with the filter removed. Dust may accumulate on the optical elements degrading picture quality. Do not put anything into the air vents. Doing so may result in malfunction of the projector.



Press and hold the filter cover and pull out the filter.

NOTE: If the filter is heavily clogged and unable to clean, replace it with a new one. Consult your dealer for details.

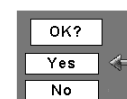
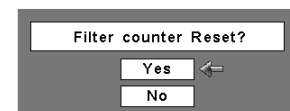
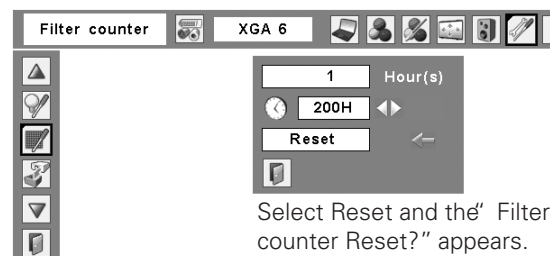
Replacement Filter Part No.: 910-330-7184

Resetting the Filter Counter

Be sure to reset the Filter counter after cleaning or replacing the filter.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red framed pointer to the Setting Menu icon.
- 2 Use the Point ▲▼ buttons to move the red framed pointer to Filter counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the filter use, a timer setting option, and the reset option. Select Reset and the "Filter counter Reset?" appears. Select [Yes] to continue.
- 3 Another confirmation dialog box appears, select [Yes] to reset the Filter counter.

Filter counter



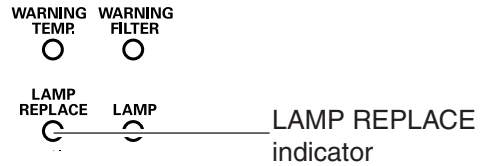
Lamp Replacement

When the projection lamp of the projector reaches its end of life, the Lamp replacement icon appears on the screen and LAMP REPLACE indicator lights yellow. Replace the lamp with a new one promptly. The timing when the LAMP REPLACE indicator should light is depending on the lamp mode.



WARNING:
TURN OFF THE UV LAMP BEFORE
OPENING THE LAMP COVER

Top Control



Lamp replacement



Lamp replacement icon



CAUTION

Allow a projector to cool for at least 45 minutes before you open the Lamp cover. The inside of the projector can become very hot.

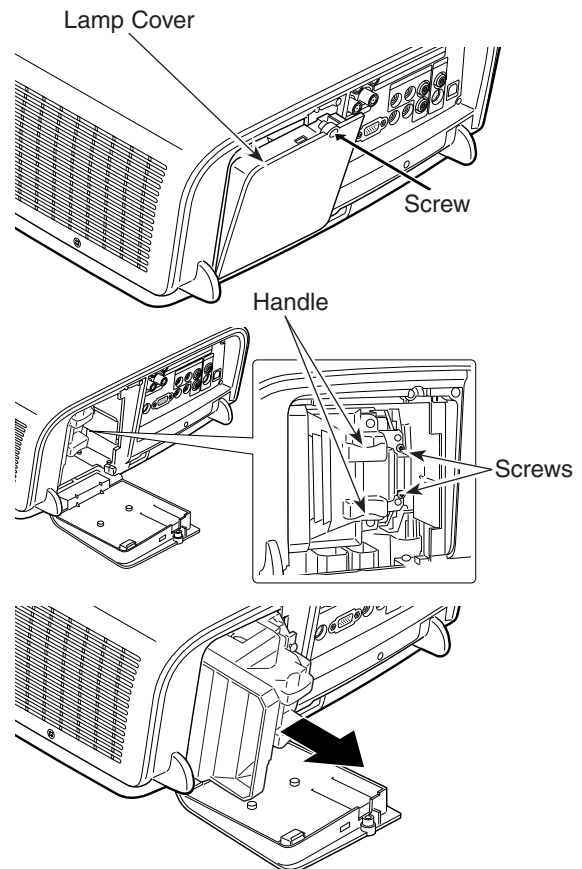


CAUTION

For continued safety, replace with a lamp of the same type lamp. Do not drop the lamp or touch the glass bulb! The glass can shatter and may cause injury.

Follow these steps to replace the lamp.

- 1 Turn off the projector and unplug the AC power cord. Let the projector cool for at least 45 minutes.
- 2 Remove the screw that secures the lamp cover, and then open the lamp cover.
- 3 Remove the two (2) screws that secure the lamp. Lift the lamp out of the projector by using the handle.
- 4 Replace the lamp with a new one and secure the two (2) screws. Make sure that the lamp is set properly. Put the lamp cover back and secure it with the screw.
- 5 Connect the AC power cord to the projector and turn on the projector.
- 6 Reset the lamp counter.
See "Resetting the Lamp Counter" on the next page.



ORDER REPLACEMENT LAMP

Type No.	POA-LMP105
Service Parts No.	610 330 7329

Resetting the Lamp Counter

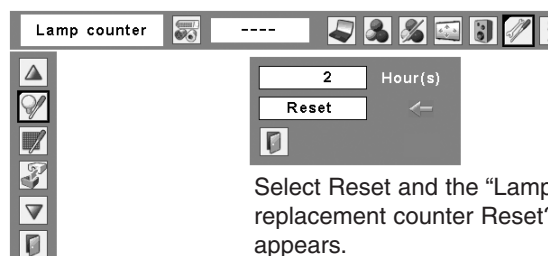
Be sure to reset the Lamp counter after the lamp is replaced. When the Lamp counter is reset, the LAMP REPLACE indicator stops lighting and the Lamp replacement icon disappears.

- 1 Press the MENU button to display the On-Screen Menu. Use the Point ◀▶ buttons to move the red framed pointer to the Setting Menu icon.
- 2 Use the Point ▲▼ buttons to move the red framed pointer to Lamp counter and then press the SELECT button. A dialog box appears showing the total accumulated time of the lamp usage and the reset option. Select Reset and the "Lamp replacement counter Reset?" appears. Select [Yes] to continue.
- 3 Another confirmation dialog box appears, select [Yes] to reset the Lamp counter.

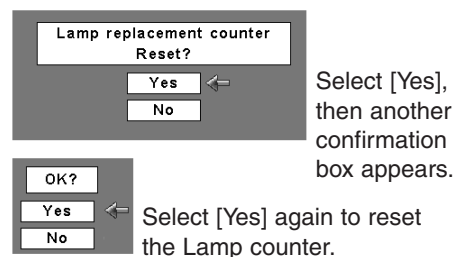
✓ **Note:**

- Do not reset the Lamp counter without implementing lamp replacement. Be sure to reset the Lamp counter only after replacing the lamp.

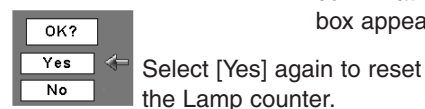
Lamp counter



Select Reset and the "Lamp replacement counter Reset?" appears.



Select [Yes], then another confirmation box appears.



Select [Yes] again to reset the Lamp counter.

How to check Lamp Used Time

The LAMP REPLACE indicator will light yellow when the total lamp used time (Corresponding value) reaches 3,000 hours. This is to indicate that lamp replacement is required.

The total lamp used time is calculated by using the below expression,

Total lamp used time (Corresponding value) = $T_{eco} + (T_{normal} \times 1.2) + (T_{high} \times 1.5)$

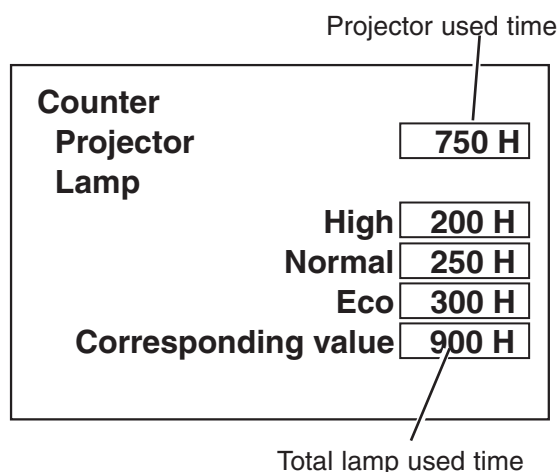
T_{eco} : used time in the Eco mode

T_{normal} : used time in the Normal mode

T_{high} : used time in the High mode

You can check the lamp used time following to the below procedure.

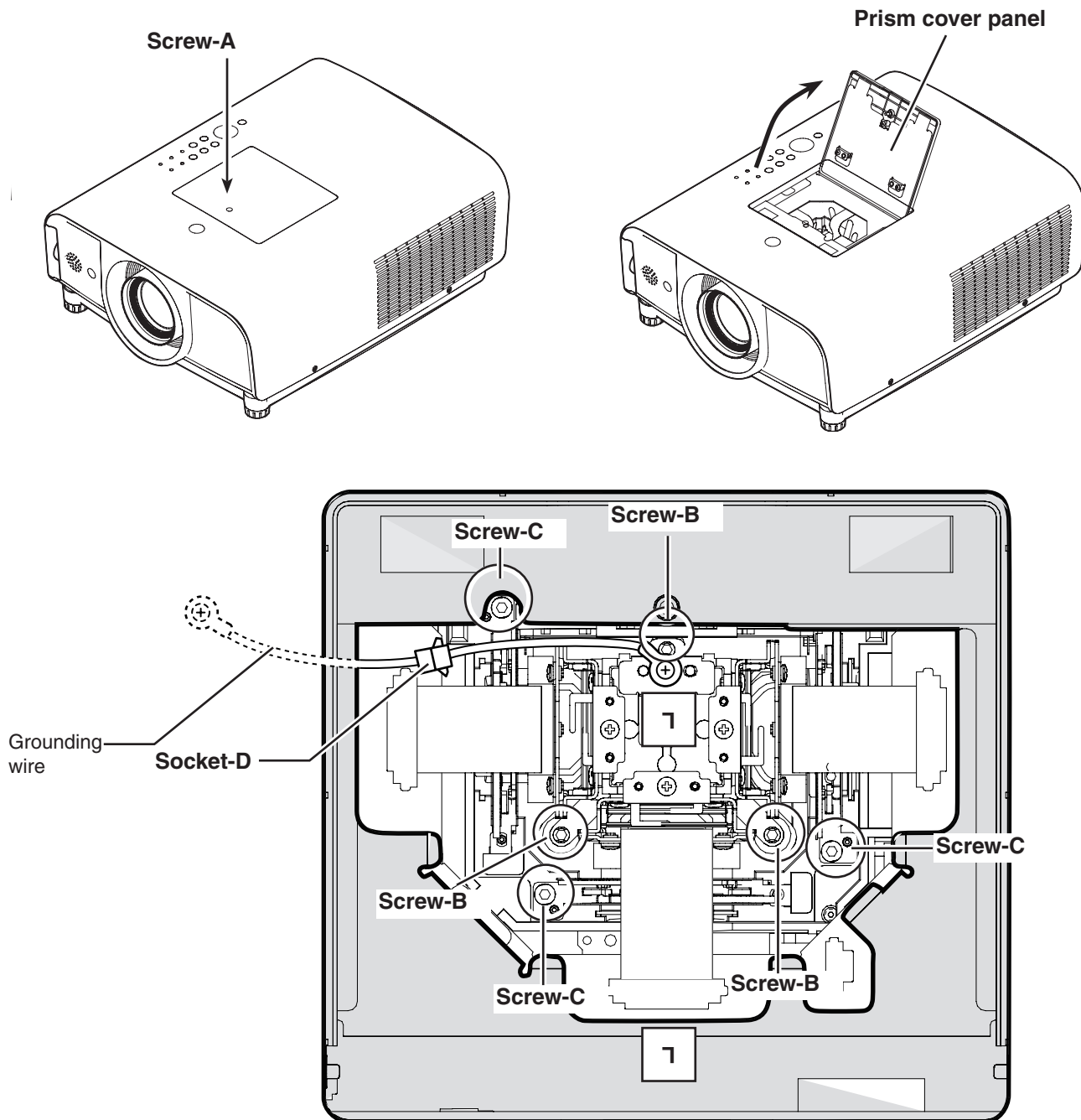
- 1 Press and hold the **ON/STAND-BY** button on the projector for more than 20 seconds.
- 2 The projector used time and lamp used time will be displayed on the screen briefly as follows.



Quick maintenance

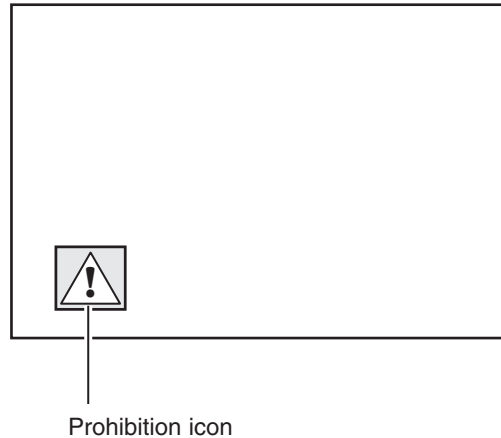
This projector provides a prism cover on the cabinet top to enhance the service maintenance. This enables service personnel to align the optical adjustment or replace the optical parts without disassembly the cabinet top.

1. Loosen 1 screw-A and open the prism cover panel.
2. To remove the LCD Panel/Prism ass'y, loosen 3 screws-B and disconnect a socket-D, and then pull the LCD Panel/Prism ass'y up.
3. To remove the Optical filter ass'y, remove a screw-C on each stopper of the Optical filter ass'y and then pull the Optical filter ass'y up.



Prohibition of motor control

This projector provides a function to prohibit the operation of motors. After installing the projector and then setting up this function. You can protect the unexpected operation by the users. All the motor controls, Focus, Zoom and Lens-shift, will not be operated. The prohibition icon will appear on the screen when user presses any of the motor control buttons.



Setting up procedures

1. Enter the service mode.
2. Select Group no. "200" and Item no. "50". Change Data value from "0" (Not prohibited) to "1" (Prohibited). Now the motor control is prohibited.
3. Exit from the service mode.

To cancel the prohibition mode, set value to "0" in the step 2.

* How to enter the service mode and select the group, item and data value, see "Service Adjustment Menu Operation".

Security Function Notice

This projector provides security functions such as "Key lock", "PIN code lock" and "Logo PIN code lock". When the projector has set these security function on, you are required to enter correct PIN code to use the projector. If you do not know the correct PIN code to the projector, the projector can no longer be operated or started. In this case, you must reset those function first according to the resetting procedure described below and then check up on the projector.

Function	Description
Key lock	Locks operation of the top control or the remote control. If the Key lock is enabled with top control lock, the projector can no longer be started. <i>Initial setting: Key lock function is disabled</i>
PIN code lock	Prevents the projector from being operated by an unauthorized person. <i>Initial code: "1234"</i>
Logo PIN code lock	Prevents an unauthorized person for changing the start-up logo on the screen. <i>Initial code: "4321"</i>

Resetting procedure

- 1 Disconnect the AC power cord from the AC outlet.
- 2 As pressing the **SELECT** button on the projector, connect the AC power cord into an AC outlet again. Keep pressing the **SELECT** button until the POWER indicator lights continuously.
This is complete the resetting of the security function. The PIN code lock and Logo PIN code lock are reset as the initial PIN code at the factory and the Key lock function is disabled.

Please refer to the owner's manual for further information of the security functions.

Mechanical Disassembly



Mechanical disassembly should be made following procedures in numerical order.

Following steps show the basic procedures, therefore unnecessary step may be ignored.

Caution:

The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

The wiring method of the leads and ferrite cores should be returned exactly the same state as the original, otherwise it may cause loss of performance and product safety.

Screws Expression (Type Diameter x Length) mm	
T type	M Type
	

1-1 Cabinet top ass'y removal-1.

1. Remove 1 cover-A and 2 covers-B.

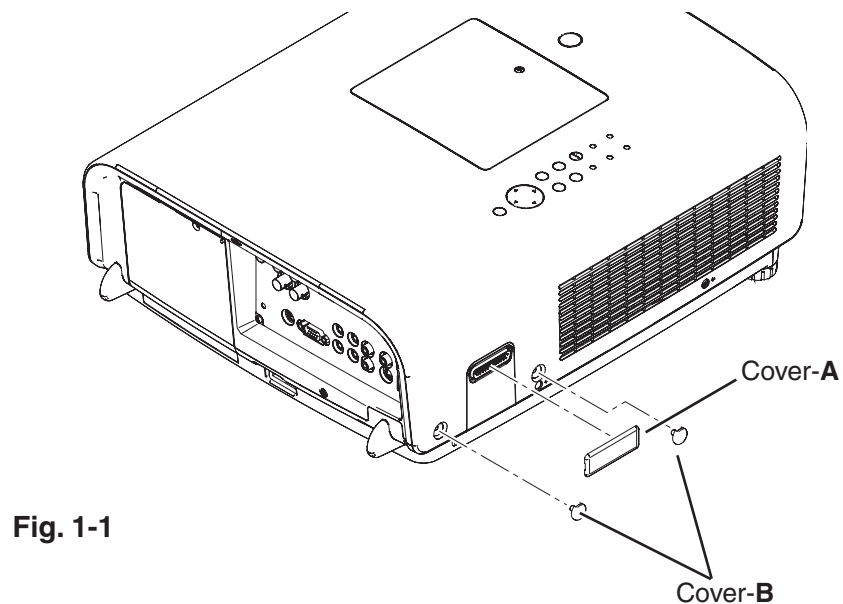


Fig. 1-1

1-2 Cabinet top ass'y removal-2.

1. Loosen 1 screw-A(M3X11) and open the Lamp cover.
2. Remove 1 screw-B(M3X8).

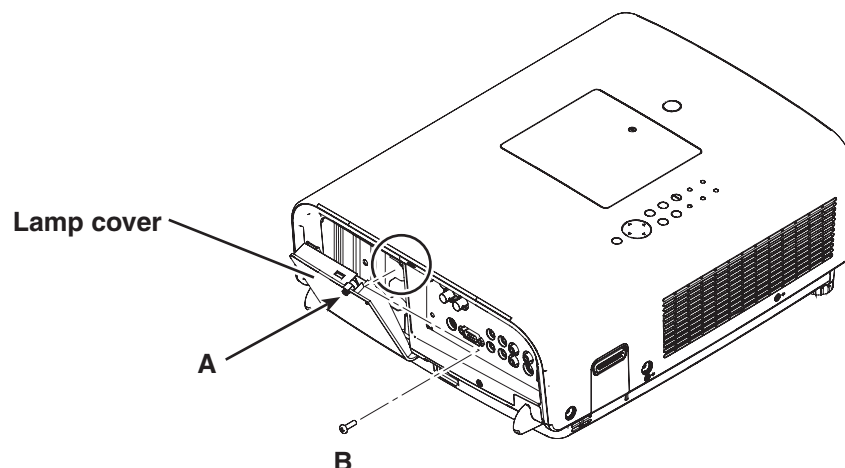
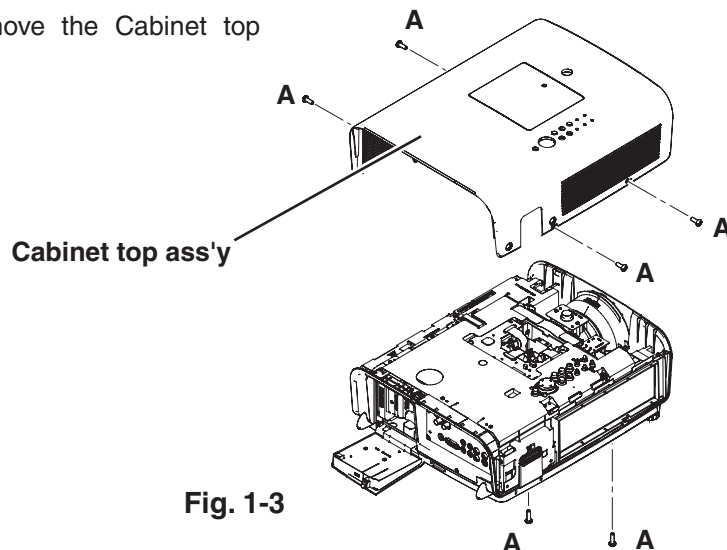


Fig. 1-2

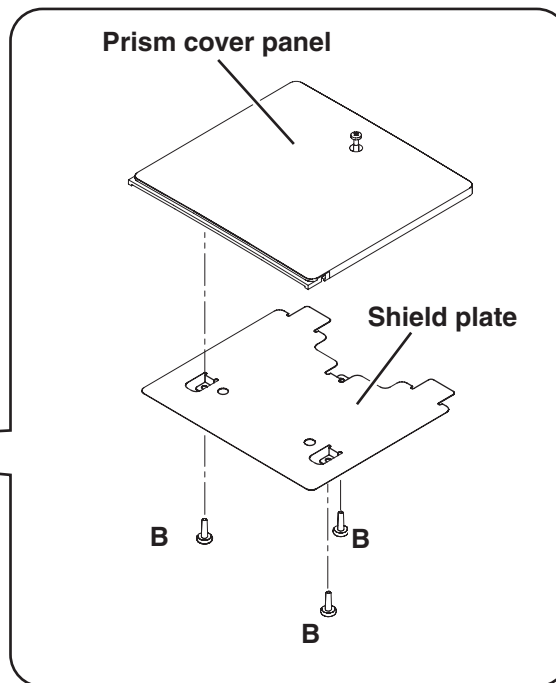
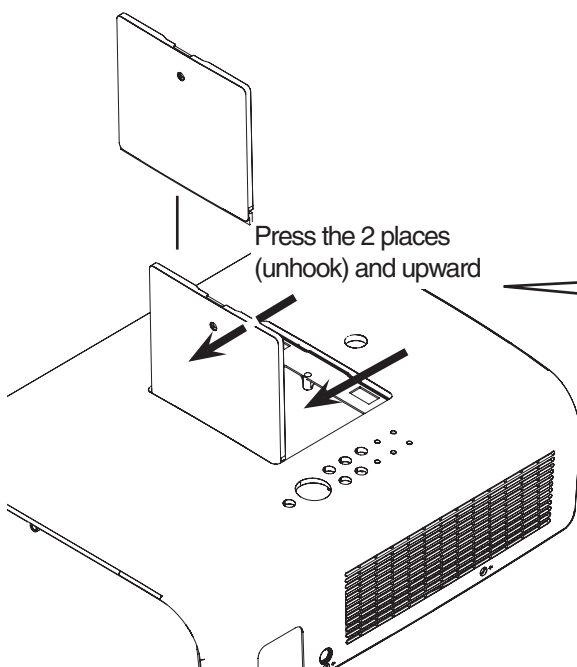
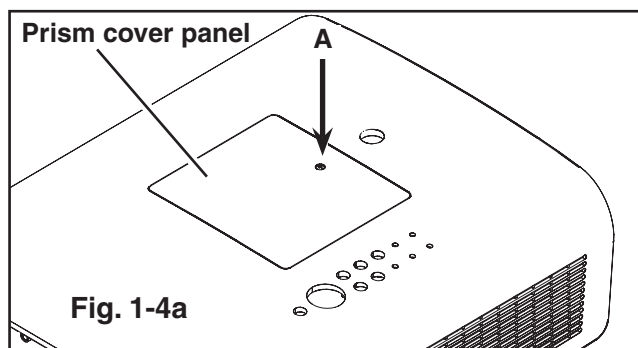
1-3 Cabinet top ass'y removal-3.

1. Remove 6 screws-A(M3X8) and remove the Cabinet top ass'y.



1-4 Cabinet top ass'y removal-4.

1. Loosen screw-A(M3X11) and open the Prism cover panel.
(Press 2 places (unhook) and remove the Prism cover panel upward.)
2. Remove 3 screws-B(T3X8) and remove the shield plate.



2 AV Panel and Side Panel removal.

1. Remove 5 screws-A(M3X8) and remove the AV Panel.
2. Remove 1 screw-B(M3X6) and remove the Side Panel.

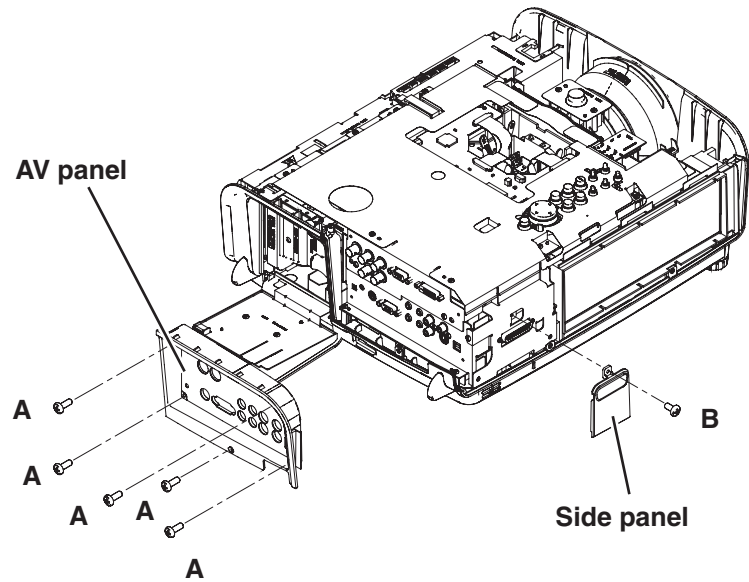


Fig. 2

3 Shield plate top-A removal.

1. Remove 11 screws-A(M3X6) and remove the Shield plate top-A.

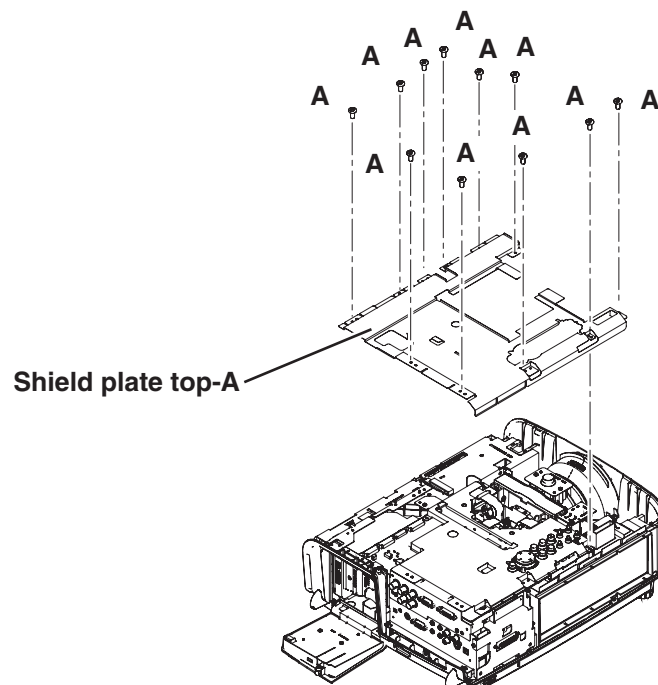


Fig. 3

4-1 Main board ass'y removal-1.

1. Remove 3 screws-A(M3X6) and remove 2 screws-B(M3X6).
- 2.Remove the Shield plate top-B, Main board ass'y and remove the Shield plate bottom.

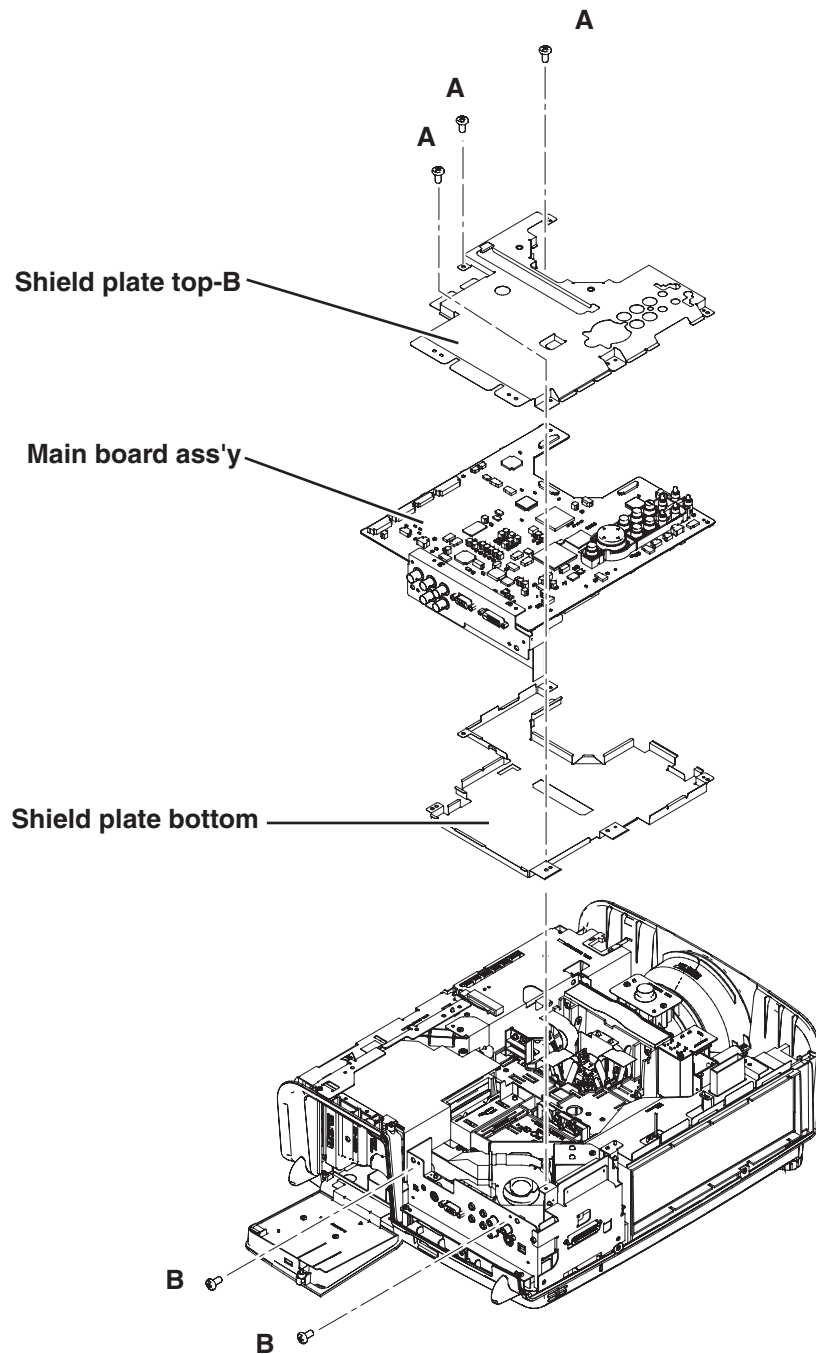


Fig. 4-1

4-2 Main board ass'y removal-2.

1. Unhook and remove the Button upward.
2. Remove the DEC inlay.
3. Remove the Heat sink sheet-A.

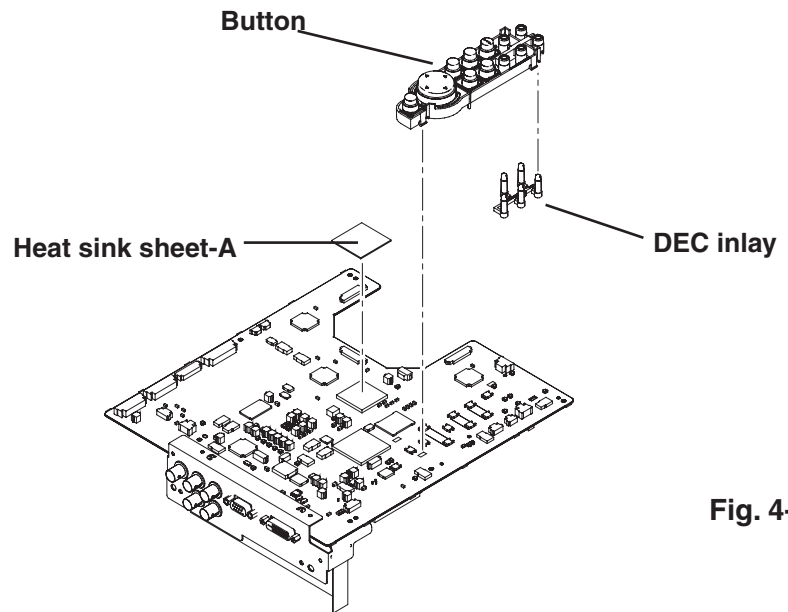


Fig. 4-2

4-3 Main board ass'y removal-3.

1. Remove 1 screw-A(M3X6).
2. Remove 2 nuts-B, 2 nuts-C, 1 screw-D and remove the Main PWB Holder.

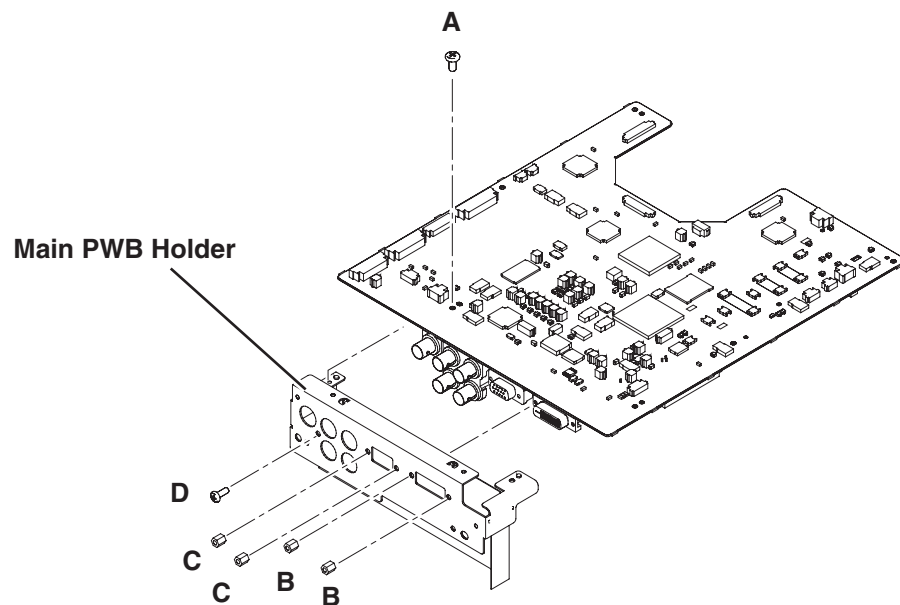
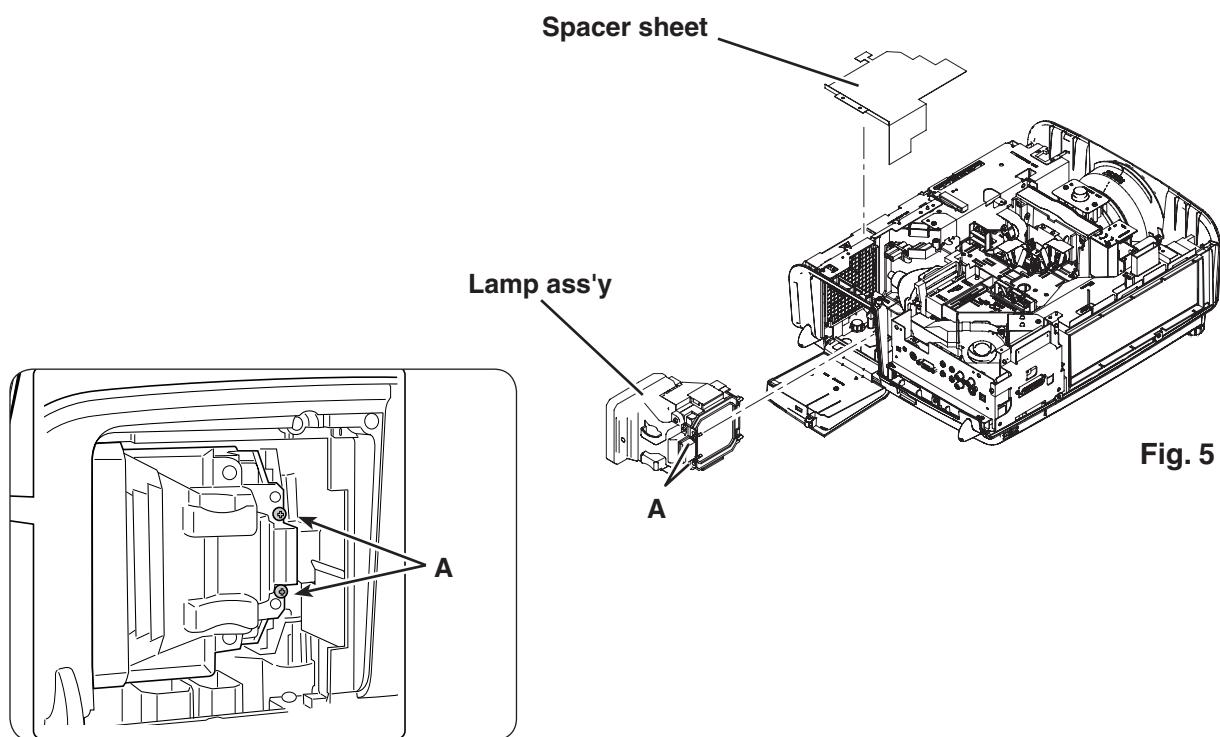


Fig. 4-3

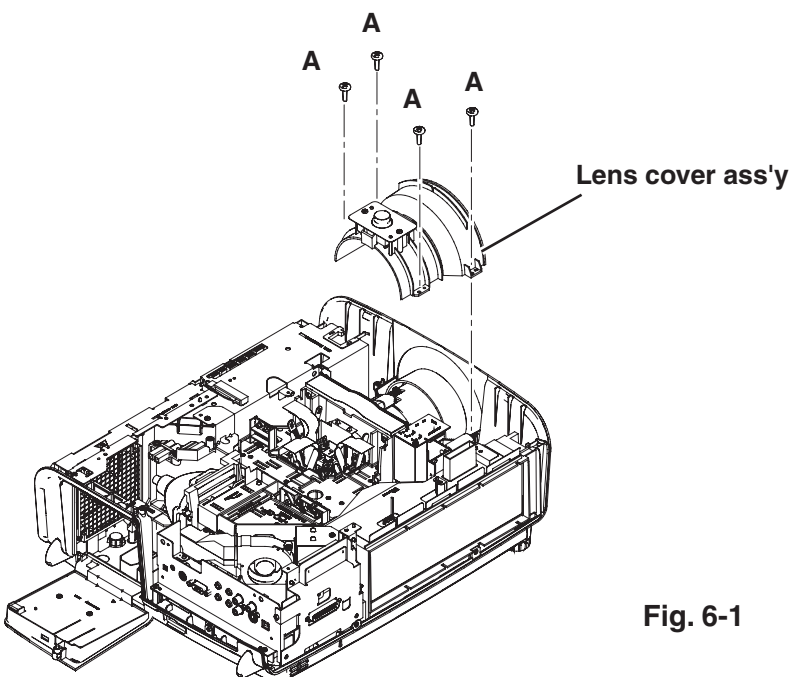
5 Lamp ass'y removal.

1. Loosen 2 screws-A(M3X13) and remove the Lamp ass'y.
2. Remove the Spacer sheet.



6-1 Lens cover ass'y removal-1.

1. Remove 4 screws-A(T3X8) and remove the Lens cover ass'y.



6-2 Lens cover ass'y removal-2.

1. Remove 2 screws-A(T3X8) and remove the Stopper button.
2. Remove the Button, remove the Spring and remove the Holder.

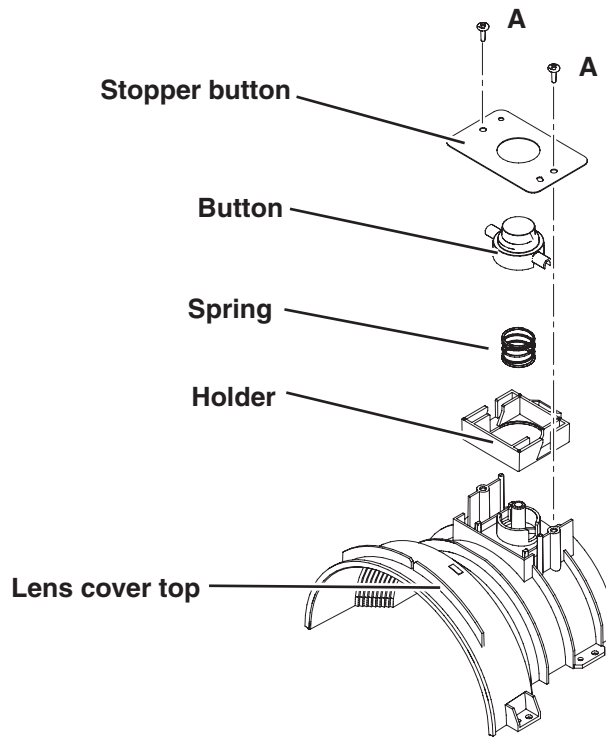


Fig. 6-2

7 Optical engine removal.

1. Remove 5 screws-A(T3X10) and remove the Optical engine.

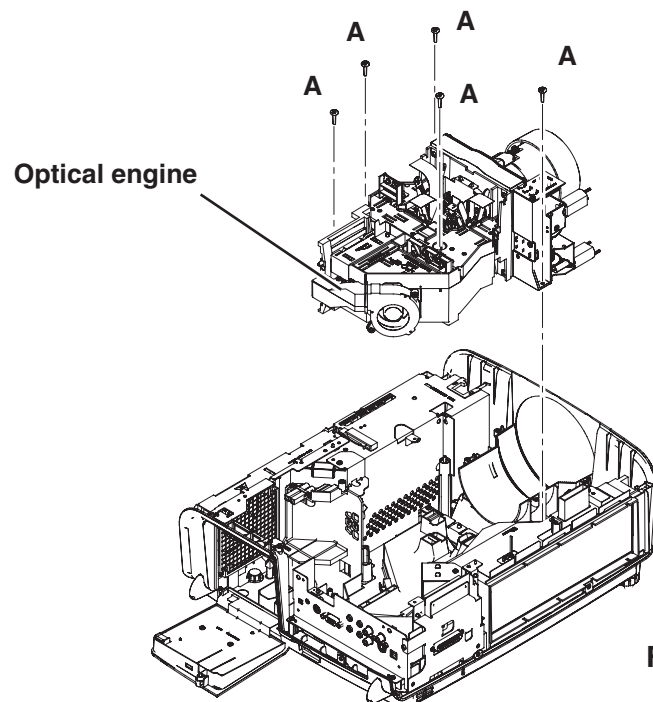


Fig. 7

8 Lens cover bottom removal.

1. Remove 2 screws-A(T3X8) and remove the Optical engine.

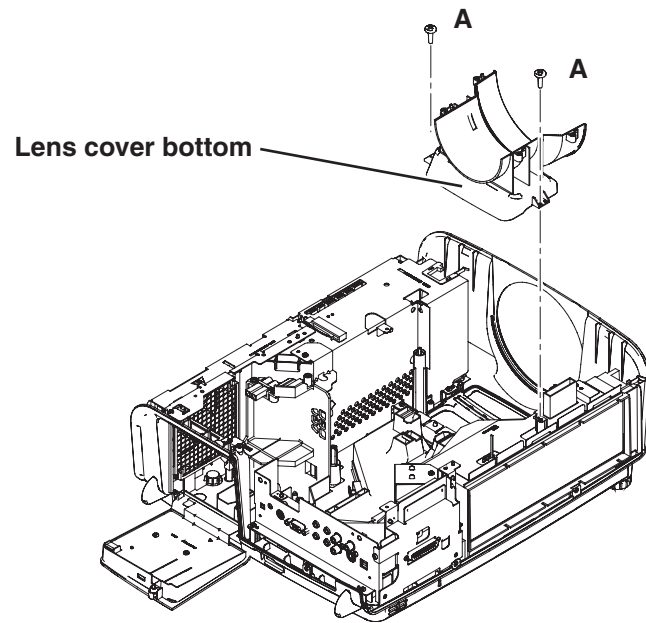
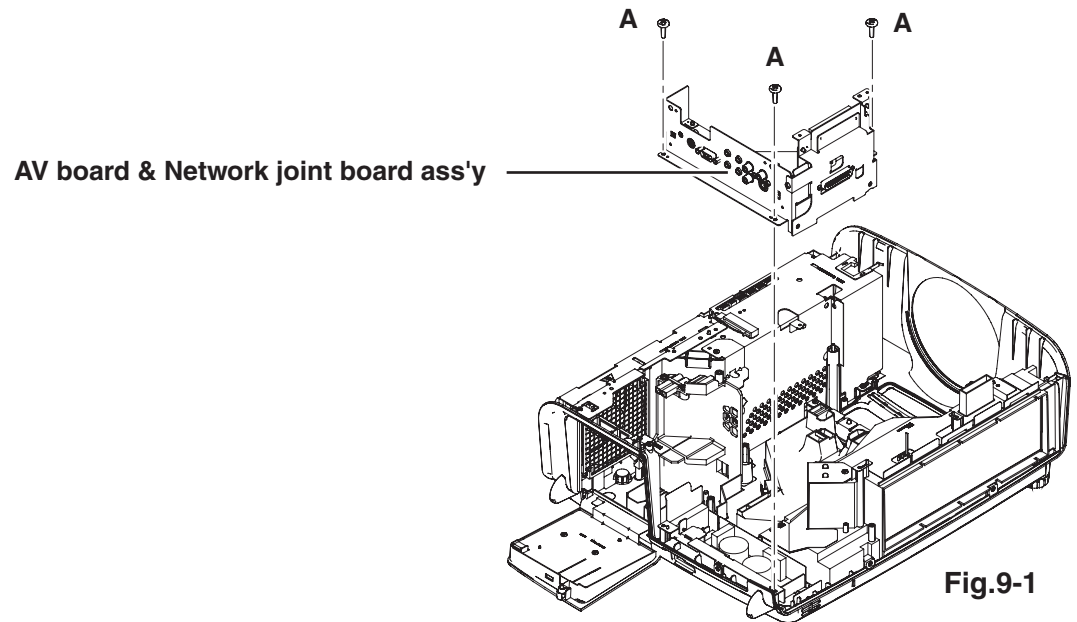


Fig. 8

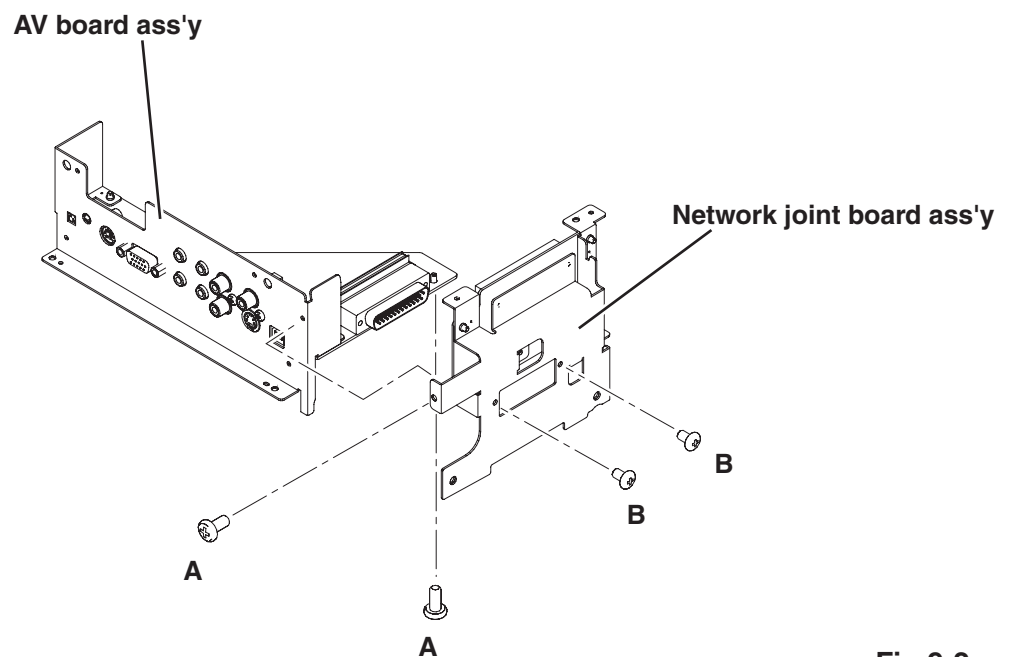
9-1 AV board & Network joint board ass'y removal-1.

1. Remove 3 screws-A(T3X8) and remove the AV board & Network joint board ass'y.



9-2 AV board & Network joint board ass'y removal-2.

1. Remove 2 screws-A(M3X6) and 2 screws-B(M2.6X10).
2. Remove the AV board ass'y and remove the Network joint board ass'y.



9-3 AV board & Network joint board ass'y removal-3.

1. Remove 4 screws-A(M3X6) and remove the Network joint board.

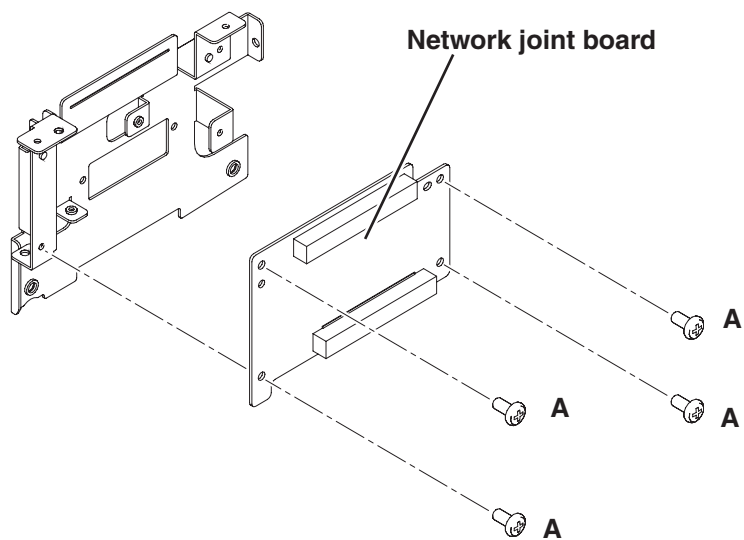


Fig.9-3

9-4 AV board & Network joint board ass'y removal-4.

1. Remove 2 screws-A(M3X6), 2 screws-B(T3X8) and remove 2 nuts-C.
2. Remove the AV board.

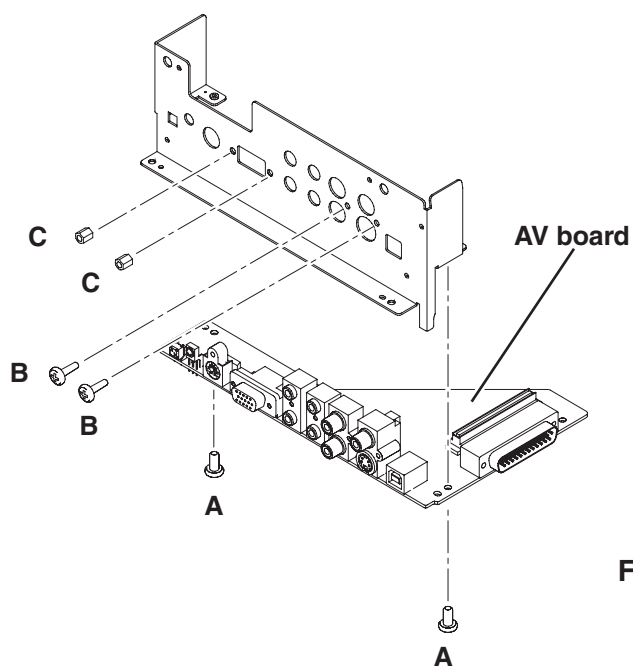


Fig.9-4

10-1 Thermostat(SW901) ass'y removal-1.

1. Remove 1 screw-A(M3X6) and remove the Thermostat(SW901) ass'y.

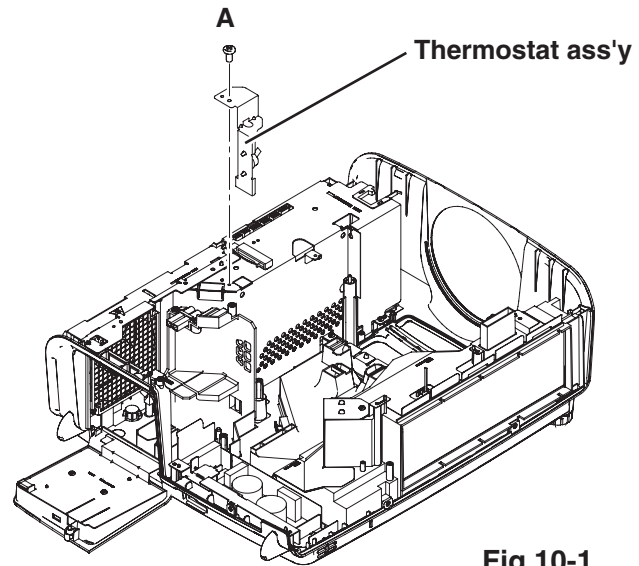


Fig.10-1

10-2 Thermostat(SW901) ass'y removal-2.

1. Remove 2 screws-A(M3X4) and remove the Thermal switch(SW901).

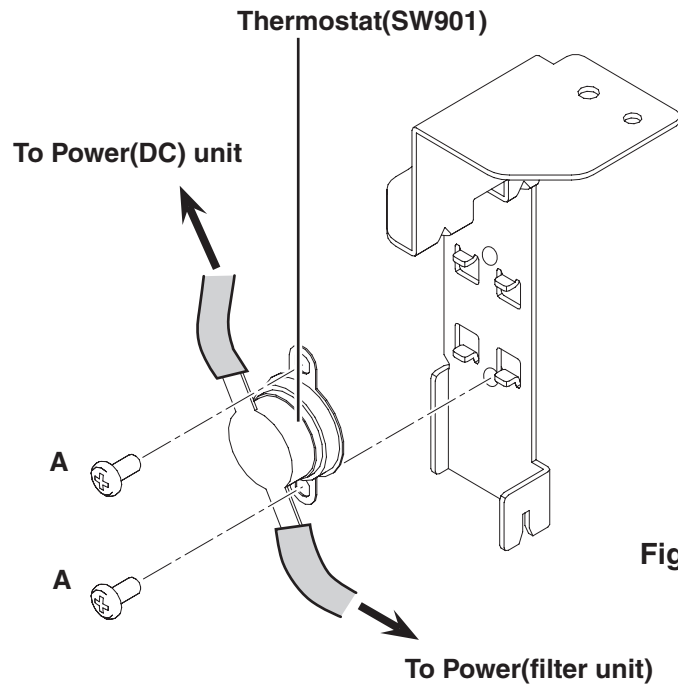


Fig.10-2

11-1 Exhaust Fan(FN901, FN902) ass'y removal-1.

1. Remove 2 screws-A(T3X8) and remove the Exhaust Fan(FN901, FN902) ass'y.

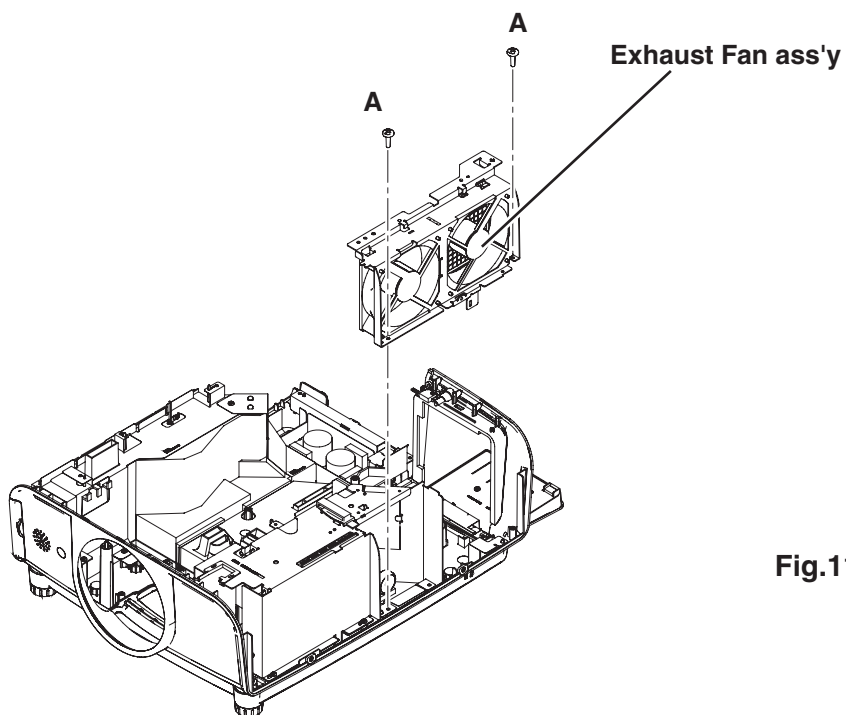


Fig.11-1

11-2 Exhaust Fan(FN901, FN902) ass'y removal-2.

1. Remove 4 screws-A(M3X28), remove the Fan guard cover and the Fan(FN901).
2. Remove 4 screws-B(M3X28) and remove the Fan(FN902).

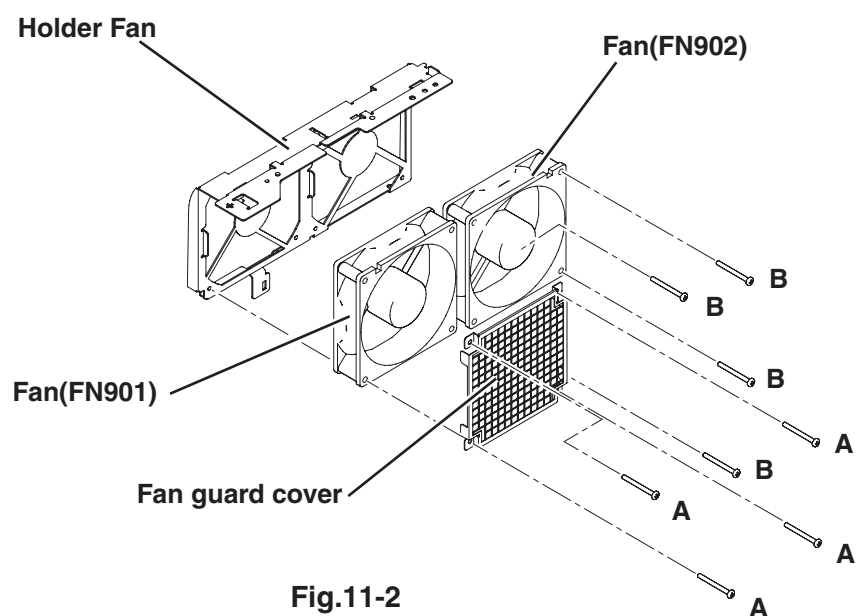


Fig.11-2

12 Exhaust Fan duct removal.

1. Remove 2 screws-A(T3X6) and remove the Lamp ballast connector.
2. Remove 2 screws-B(T3X10) and remove Exhaust Fan duct.

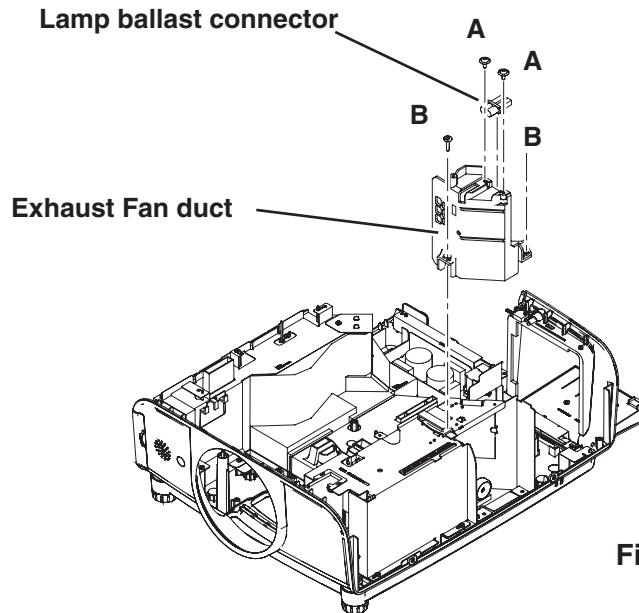


Fig.12

13-1 Power board(Ballast) ass'y removal-1.

1. Remove 1 screw-A(M3X6), 4 screws-B(T3X8) and remove the Power board(Ballast) ass'y.

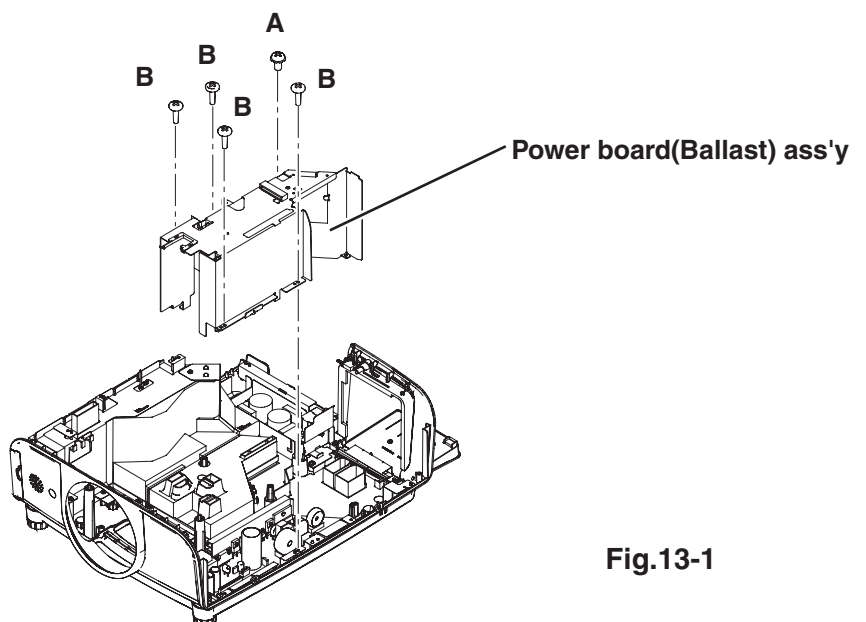


Fig.13-1

13-2 Power board(Ballast) ass'y removal-2.

1. Remove 2 Fixer clamp and remove the Power board(Ballast).
2. Remove the Spacer sheet.

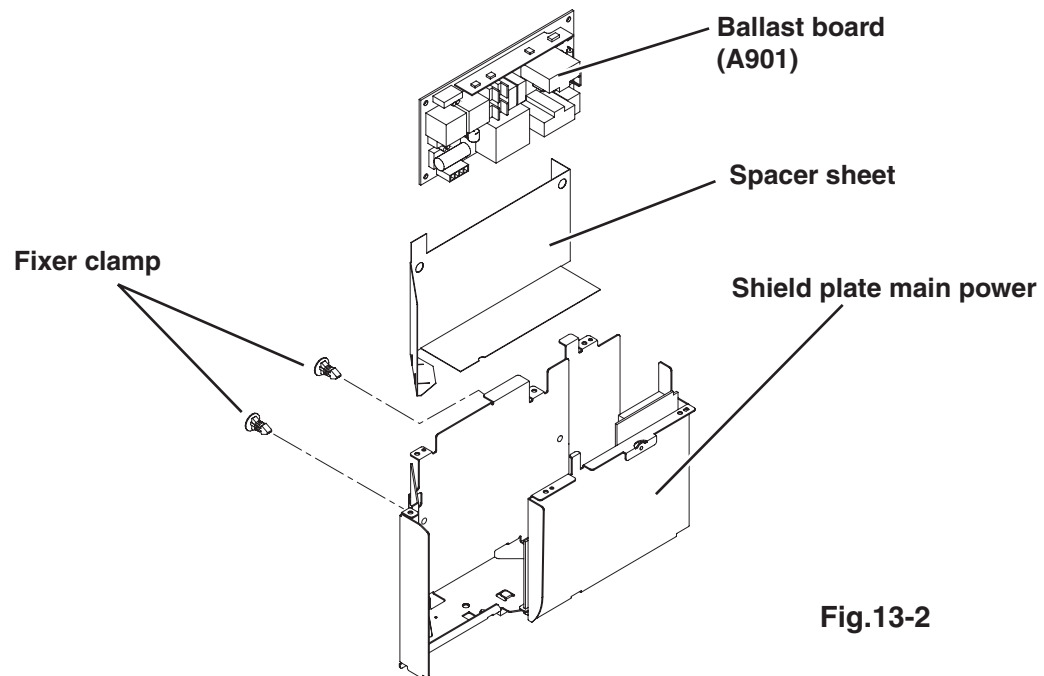


Fig.13-2

14 Power board ass'y removal.

1. Remove 1 screw-A(M3X8), 3 screws-B(T3X8) and remove the Power board ass'y.
2. Remove the Spacer sheet.

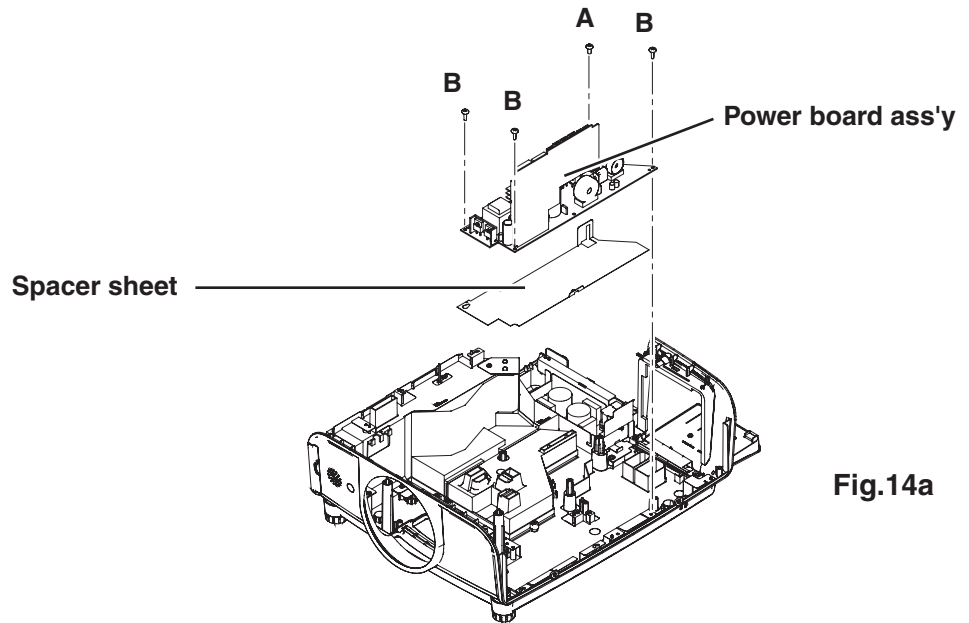


Fig.14a

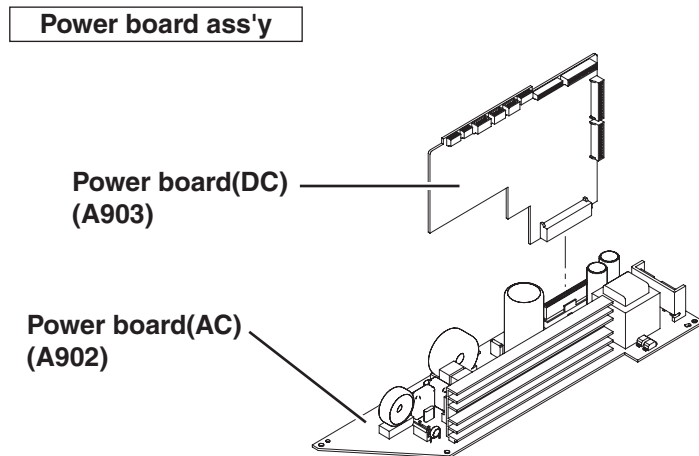


Fig.14b

15-1 Power board(Filter) ass'y removal-1.

1. Remove 1 screw-A(M3X6), 2 screws-B(T3X8) and remove the Power board(Filter) ass'y.

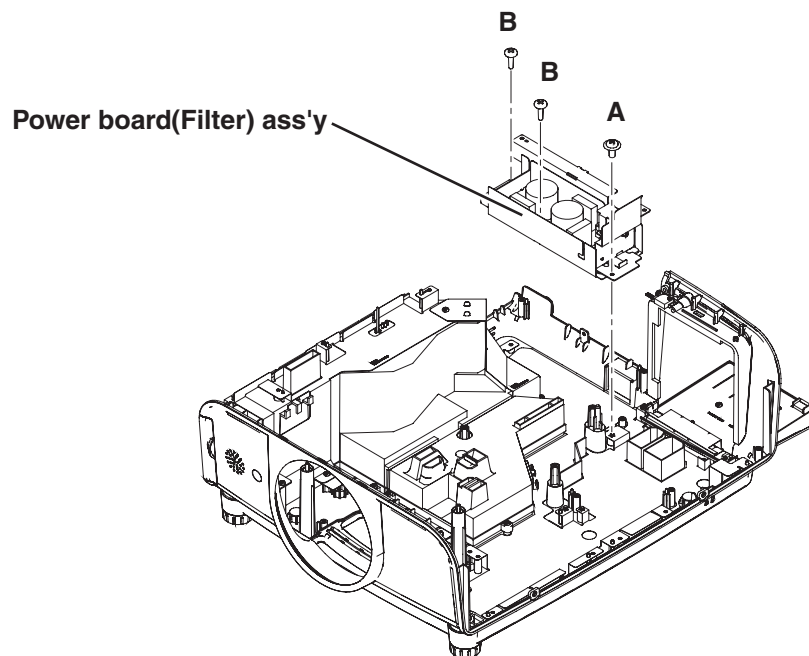


Fig.15-1

15-2 Power board(Filter) ass'y removal-2.

1. Remove 1 screw-A(M2.5X5) and remove the Fuse cover.
2. Remove the Holder PWB, remove the Spacer sheet and remove the Power board(Filter).

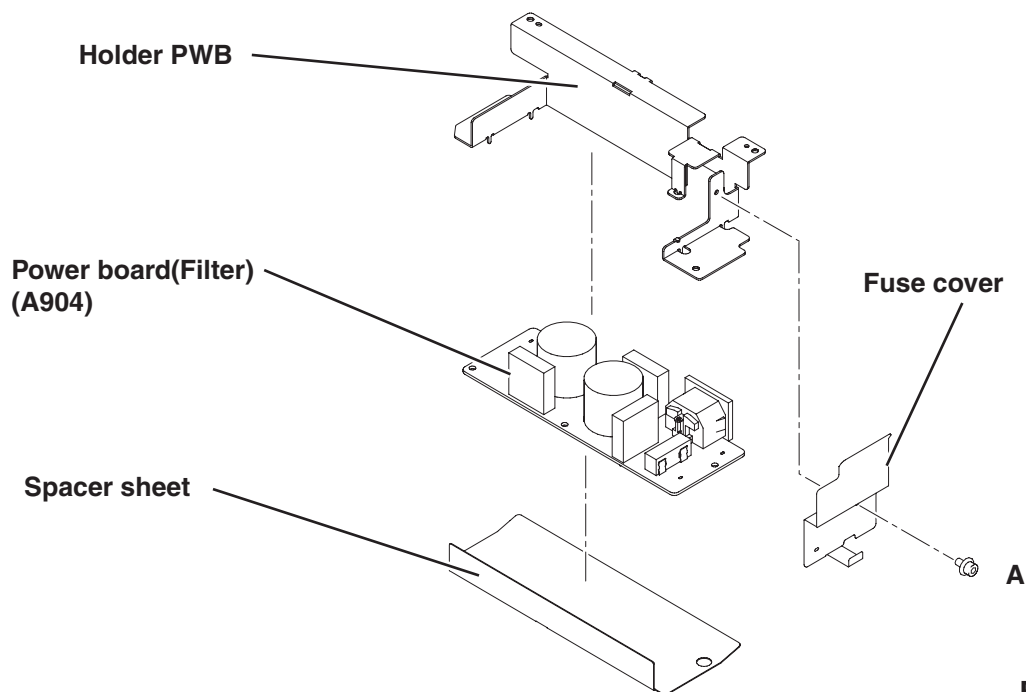


Fig.15-2

16-1 Intake Fan(FN904,FN905)removal-1.

1. Pull out air filter base ass'y.
2. Remove 5 screws-A(T3X8) and remove the intake duct ass'y.

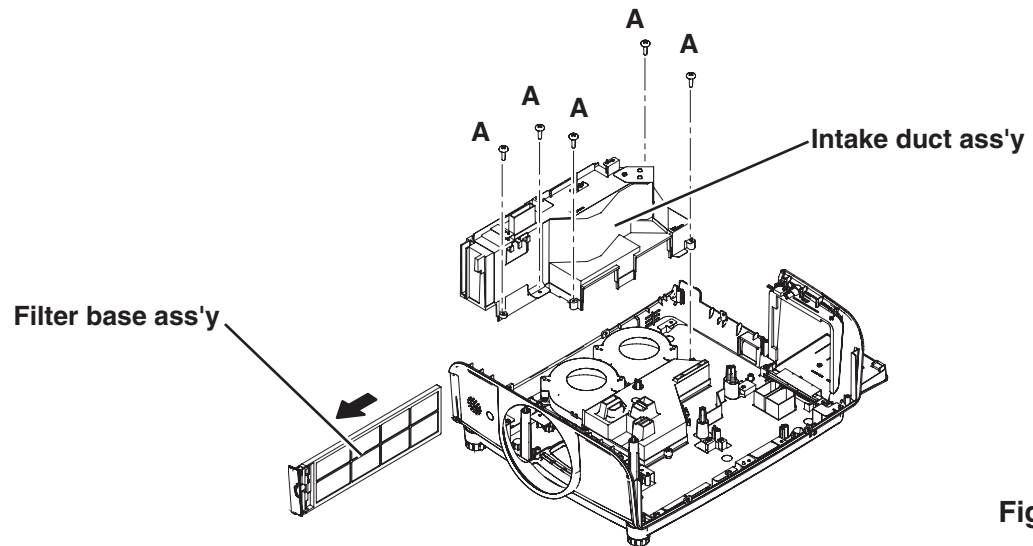


Fig.16-1

16-2 Intake Fan(FN904,FN905)removal-2.

1. Remove 1 screw-A(M3X6), the Shield plate-A and remove the Shield plate-B.

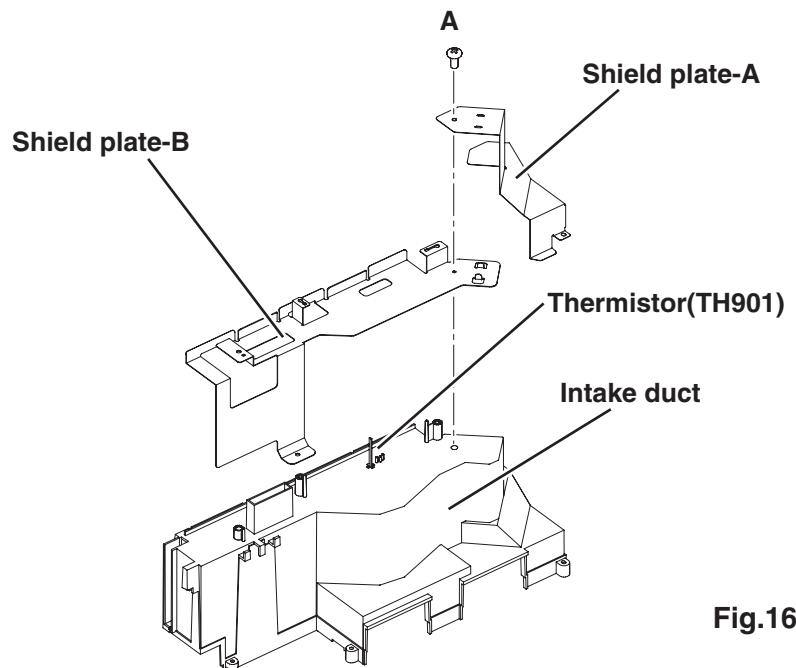


Fig.16-2

16-3 Intake Fan(FN904,FN905)removal-3.

1. Remove 4 screws-A(T3X8) and remove the Panel duct.
2. Remove 2 screws-B(T3X10) and remove the Fan(FN904).
2. Remove 2 screws-C(T3X10) and remove the Fan(FN905).

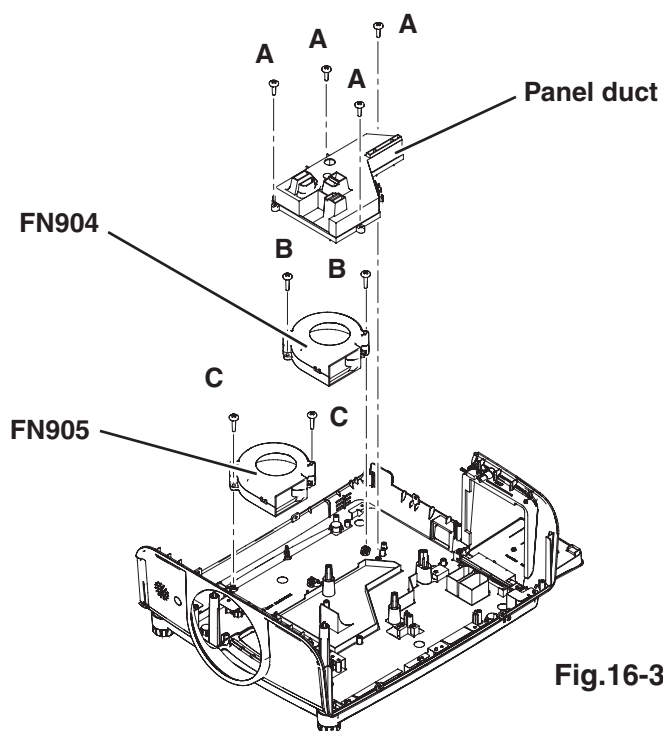


Fig.16-3

17 Shield plate BTM removal.

1. Remove 2 screws-A(T3X8) and remove the Shield plate BTM.
2. Remove the Lamp cover ass'y.

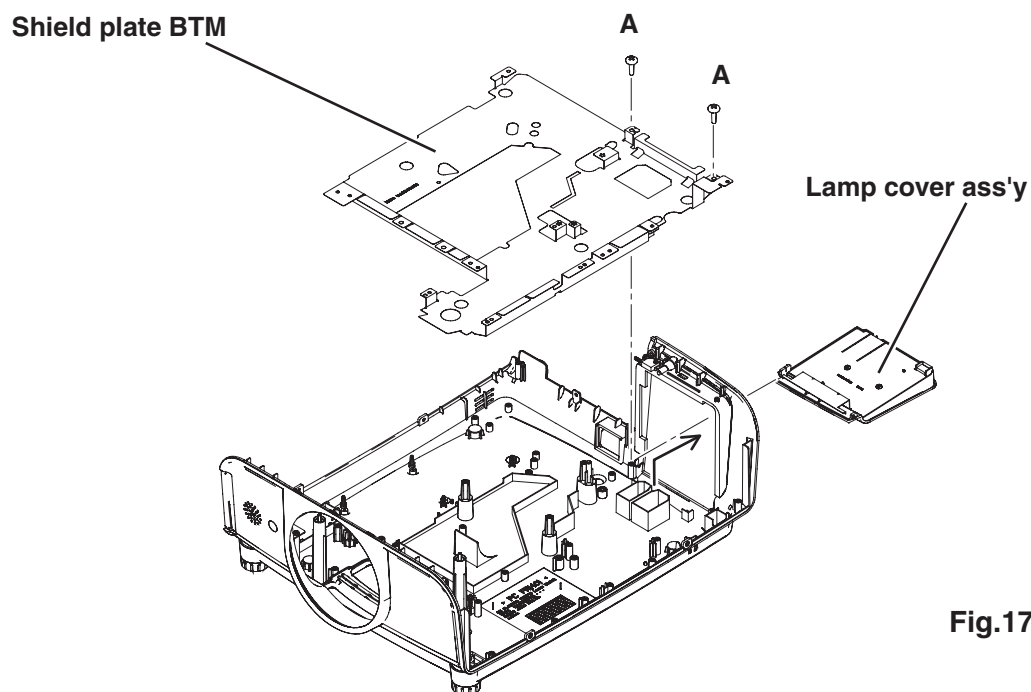


Fig.17

18 Lamp cover ass'y disassemblies.

1. Remove 2 screws-A(T3X8) and remove the Shield plate.

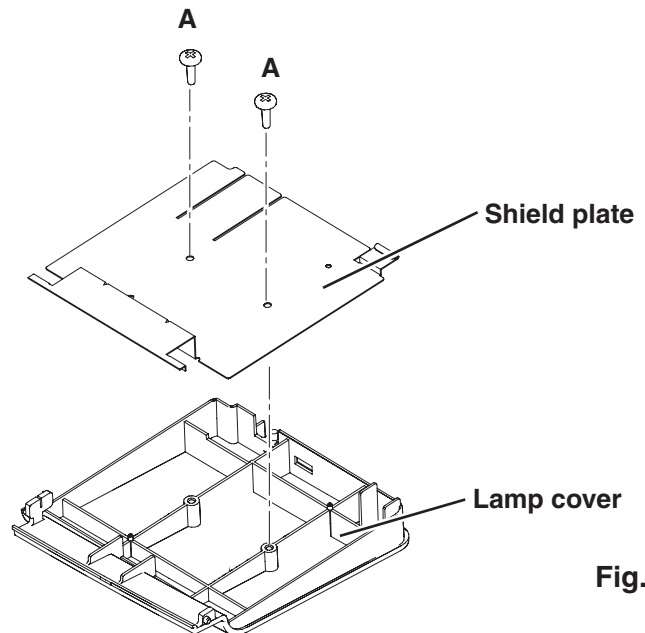


Fig.18

19 Lamp cover switch and R/C Front board removal.

1. Remove 1 screw-A(T3X8) and remove the R/C Front board(A2850).
2. Remove 1 screw-B(T3X12) and remove the Lamp cover switch(SW902).
3. Remove the Speaker(SP901) upward.

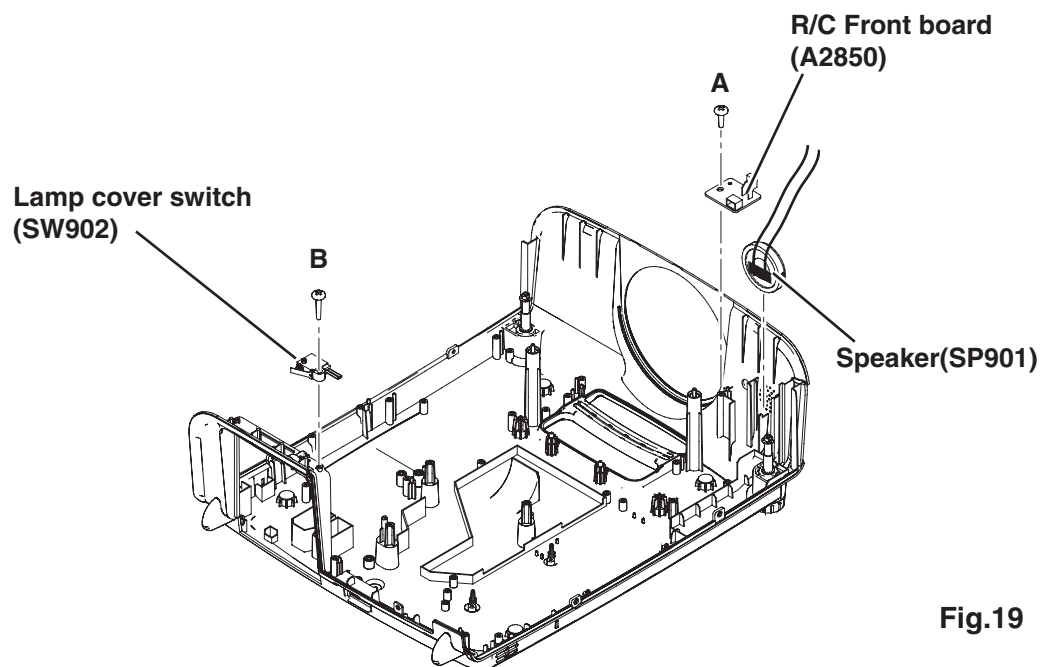
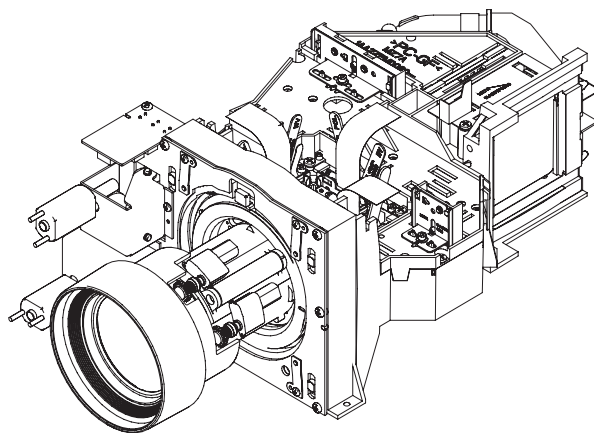


Fig.19



20 Projection lens removal.

1. Press and hold the Fixing lever-A and turn the Projection lens counterclockwise (about $1/6$ turn) and then take it off.

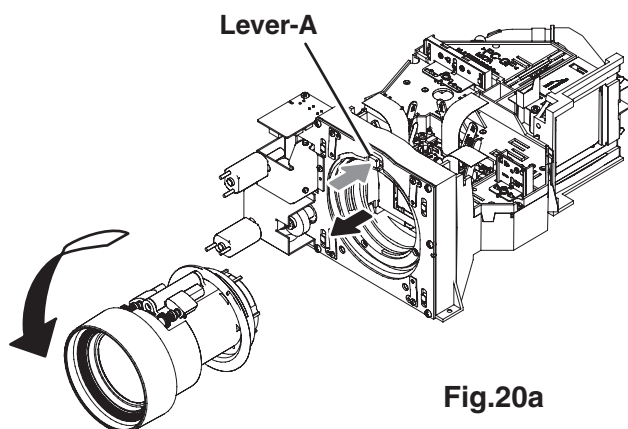


Fig.20a

Note in the Mounting Projection Lens

Insert the Projection lens into the guide at a position where the both markers on the projection lens and the mounting base come together, and turn it clockwise until the Fixing Lever is set to the fixing position.

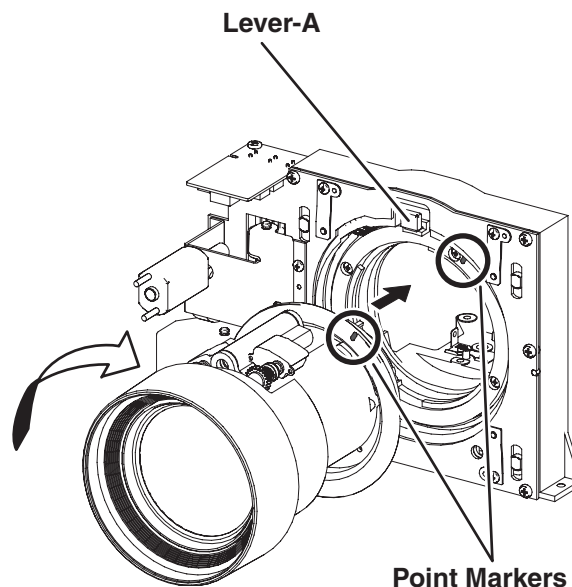
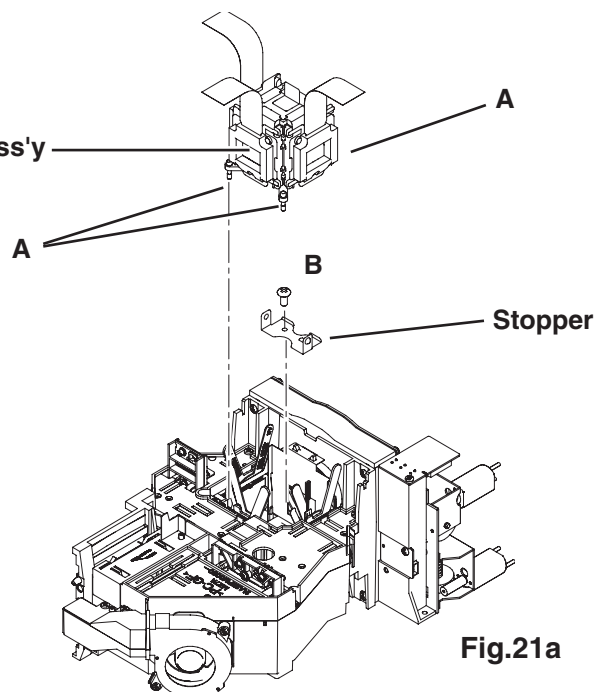
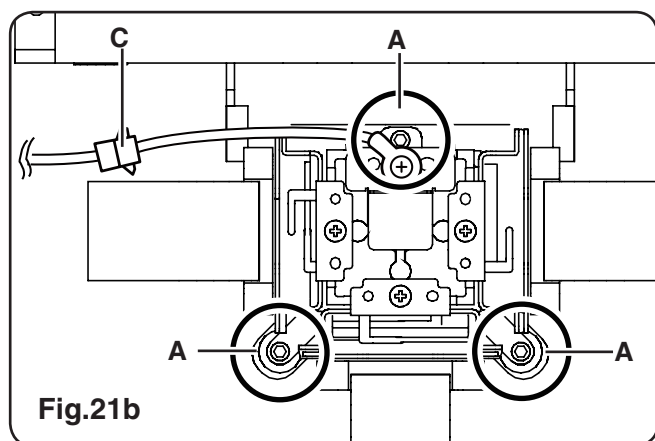


Fig.20b

21-1 LCD panel/Prism ass'y removal

1. Loosen 3 screws-A(M2.5X10.2) and disconnect 1 socket-C of grounding wire, and then remove the LCD panel/Prism ass'y.
2. Remove 1 screw-B(M2X4) and remove the Stopper.



Note; Do not replace the LCD panel separately otherwise it cannot obtain proper picture. Do not touch the prism, the LCD panel and electrode of flexible cable.

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model cannot be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

After replacing LCD Panel/Prism ass'y, please check the following points.

- Check that there is no color shading at the top, bottom, left or right of the screen. If there is, try to remove the shading following to the chapter "Optical Adjustment".
- Check the white balance. If it needs the adjustment, adjust the white balance following to the "White Balance Adjustment" and "Common Centre Adjustment" in the chapter "Electrical Adjustment".
- Check the white uniformity on the screen.

If you find the color shading at the some part of the screen, it needs to take the color shading adjustment. This adjustment should be performed by a computer and it also requires a special software "Color Shading Correction". The software will be supplied separately and can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00
Service Parts No. 645 075 9611

LCD Panel Type Check

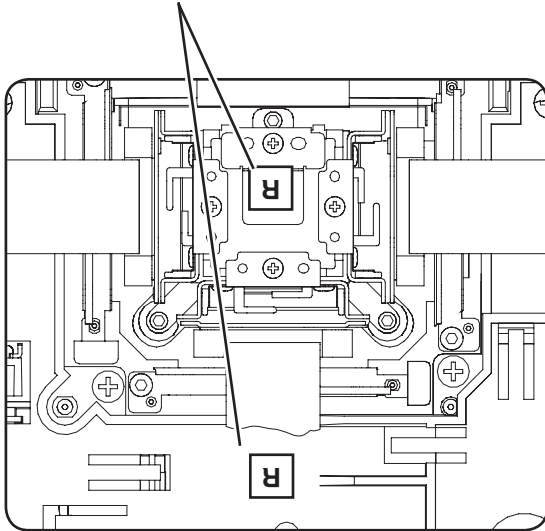
There are 2 types combination of the LCD panel/prism assembly and the optical unit, named Type-R and Type-L. Since both have no compatibility, each type should be combined with the same type, and the specific parts should be used. If not, the poor optical characteristics may degrade the quality of a projected image.

Confirm the "R" label or "L" label on top of the LCD panel/ prism assembly and the optical unit.

NOTE:

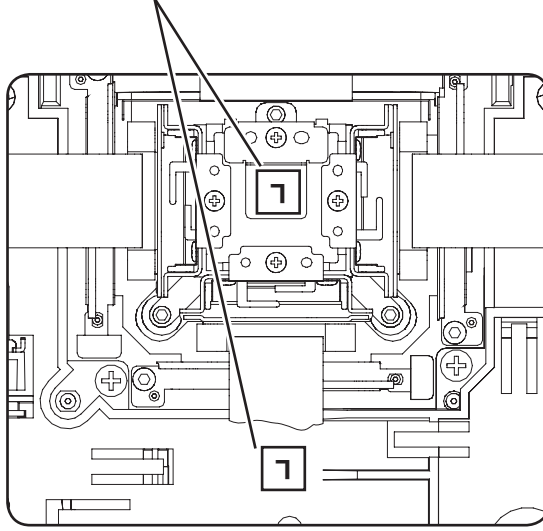
LCD panel/prism assembly should be used with the same type of the optical unit.

Confirm that both marking "R" is matched.



LCD Panel/Prism Ass'y Type-R

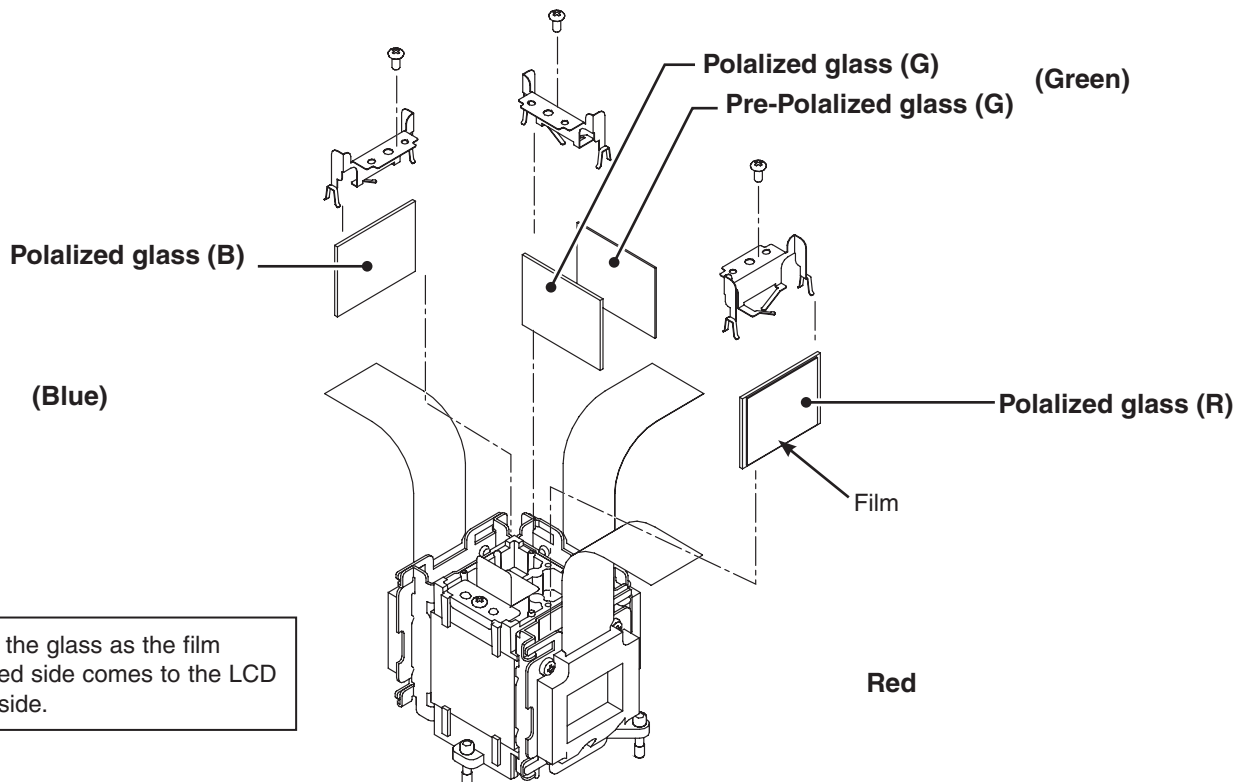
Confirm that both marking "L" is matched.



LCD Panel/Prism Ass'y Type-L

21-2 Polarized glass, Pre-Polarized glass removal

1. Remove each screw (M2X4) and holder.



22 Lens mount removal.

1. Remove 4 screws-A(M2.5X10) and remove the Lens mount.

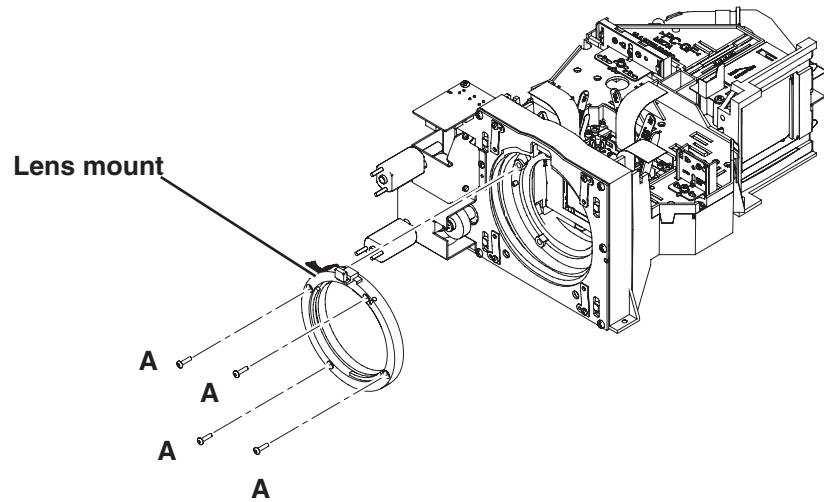


Fig.22

23 Lens shift ass'y removal.

1. Remove 4 screws-A(M3X6) and remove the Lens shift ass'y.

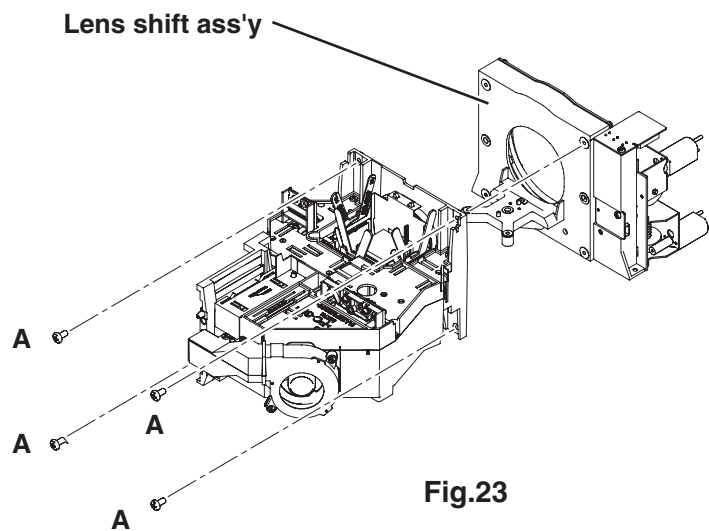


Fig.23

24 Condenser lens ass'y removal.

1. Remove 1 screw-A(M2.5X5) and remove the Condenser lens ass'y.
2. Remove 2 screws-B(M2.5X5) and remove the Lens holder ass'y.
3. Remove 1 screw-C(T3X6) and remove the Condenser lens.

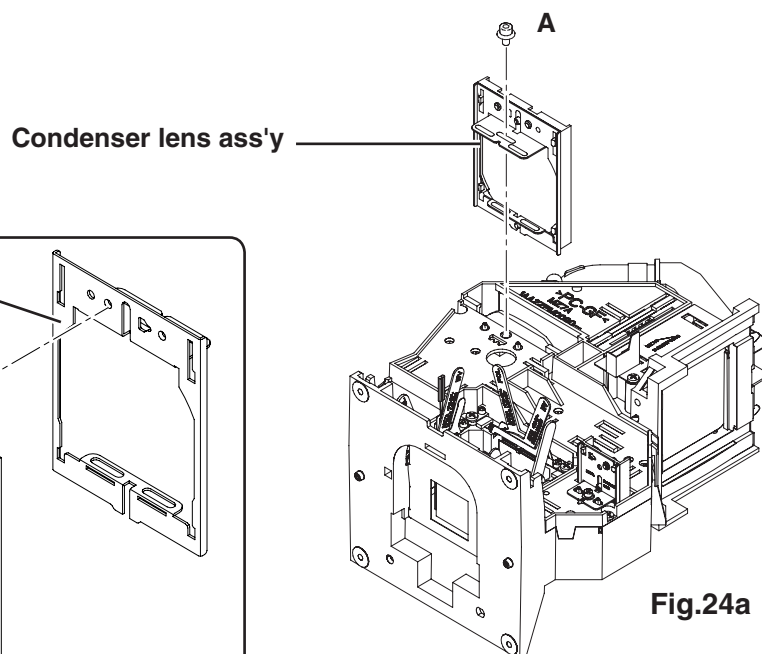


Fig.24a

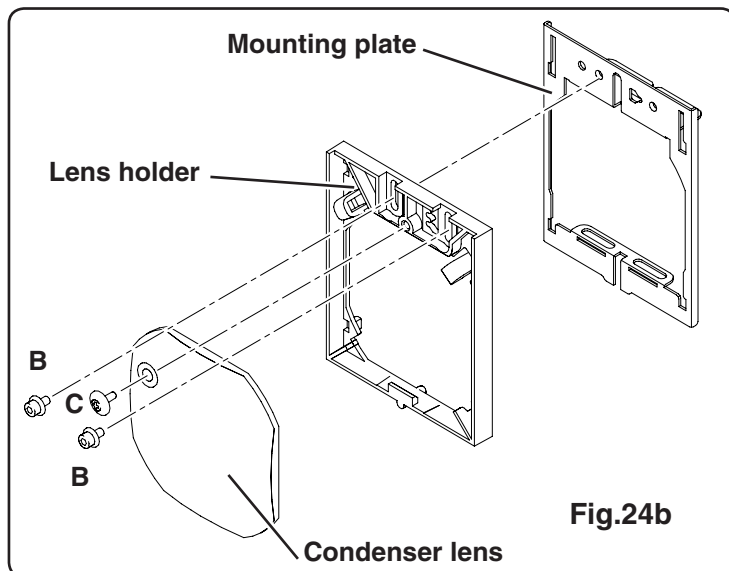


Fig.24b

Lens holder ass'y

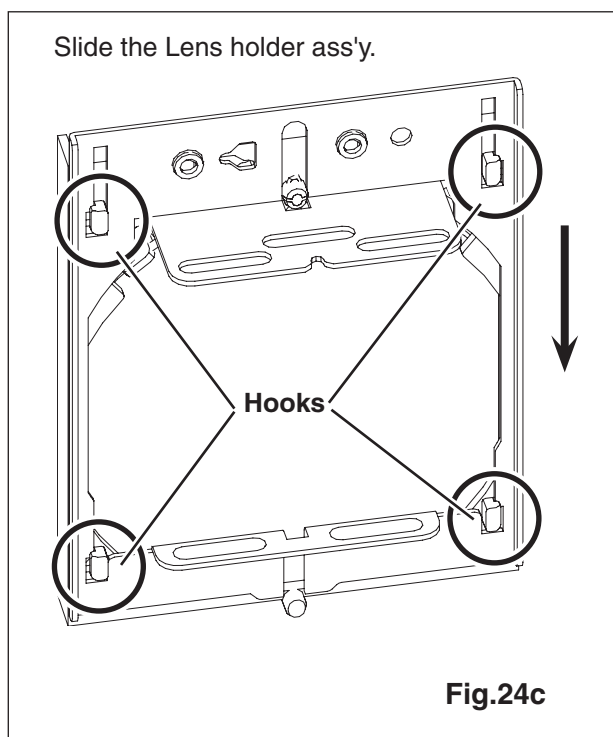


Fig.24c

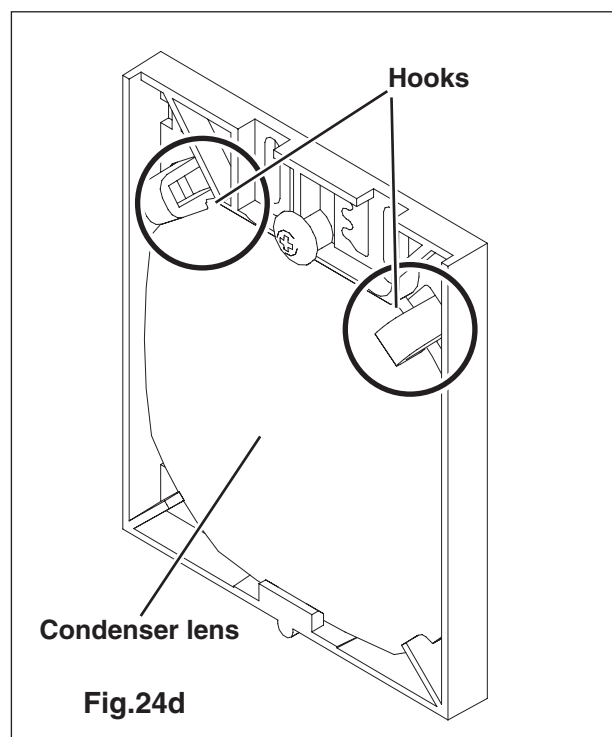
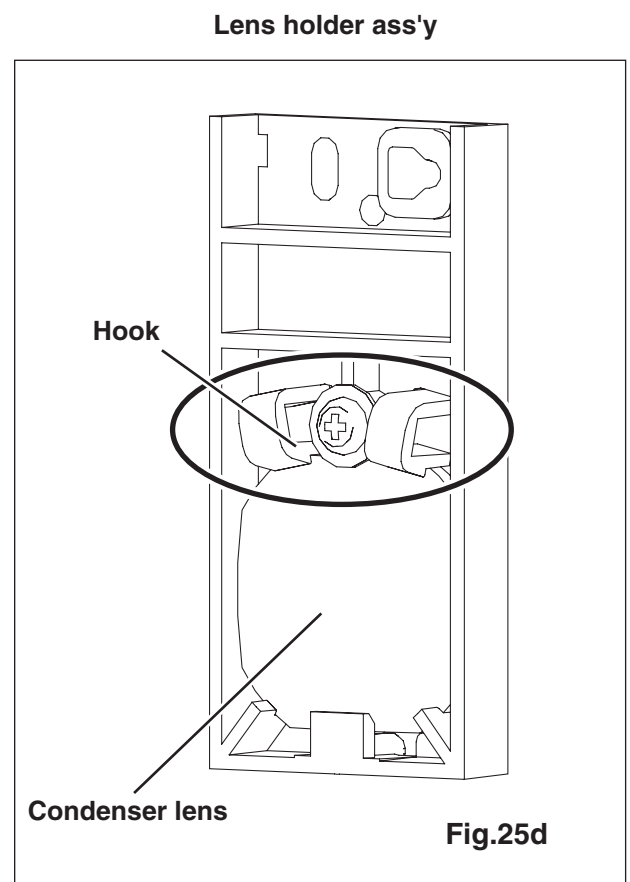
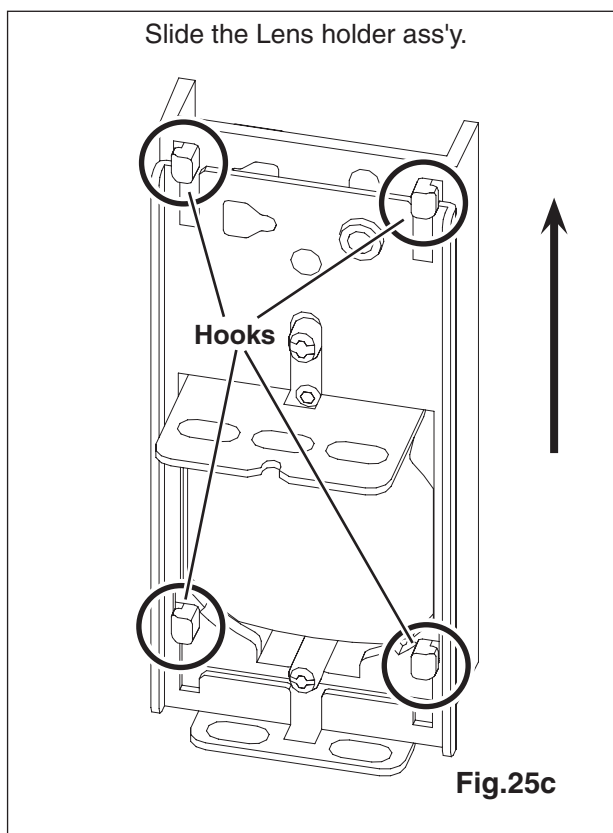
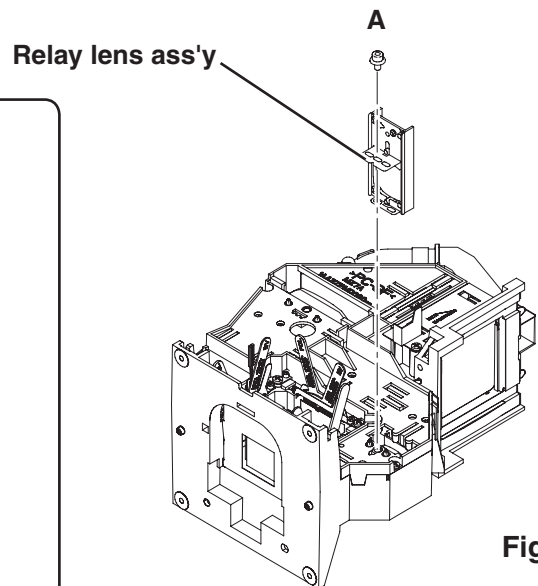
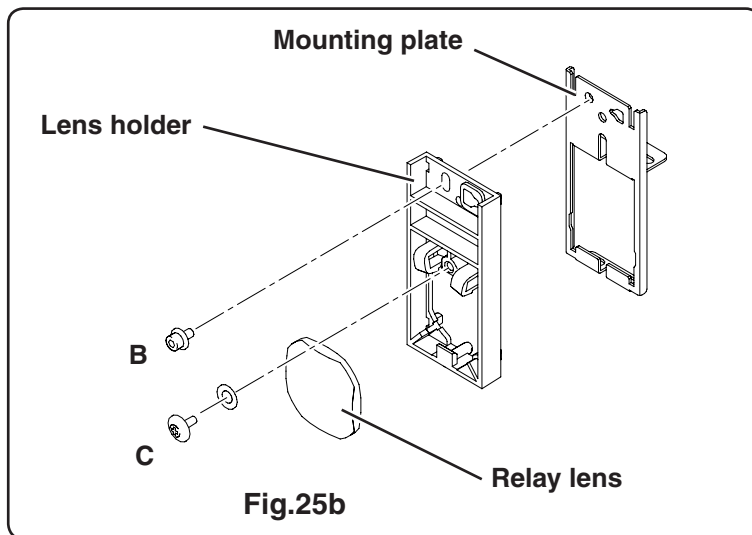


Fig.24d

25 Relay lens ass'y removal.

1. Remove 1 screw-A(M2.5X5) and remove the Relay lens ass'y.
2. Remove 1 screw-B(M2.5X5) and remove the Lens holder ass'y.
3. Remove 1 screw-C(T3X6) and remove the Relay lens.



26 Green Polarized glass ass'y and Optical filter ass'y removal.

1. Remove 1 screw-A(M2.5X6) and remove the stopper.
2. Remove the Polarized glass ass'y and remove the Optical filter ass'y.

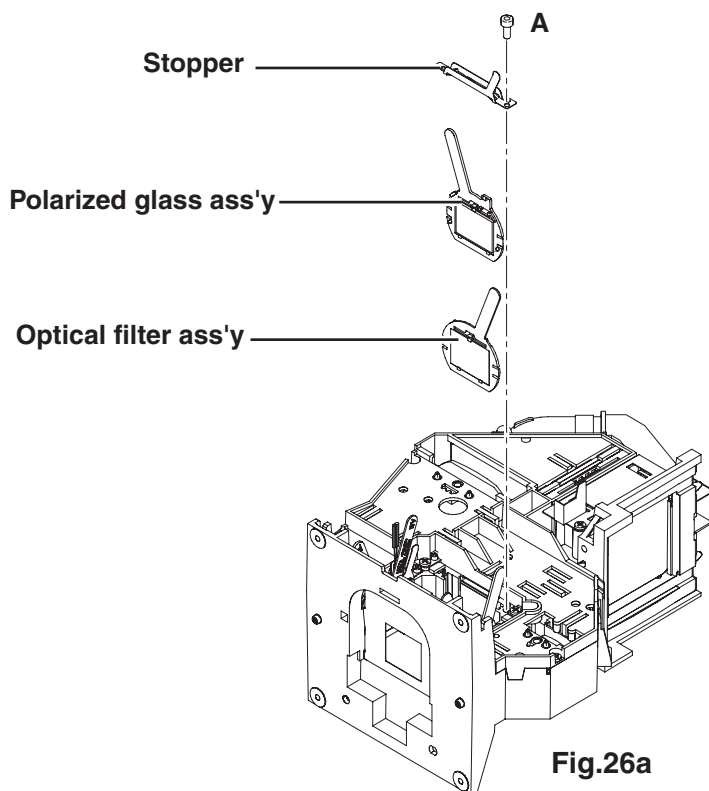
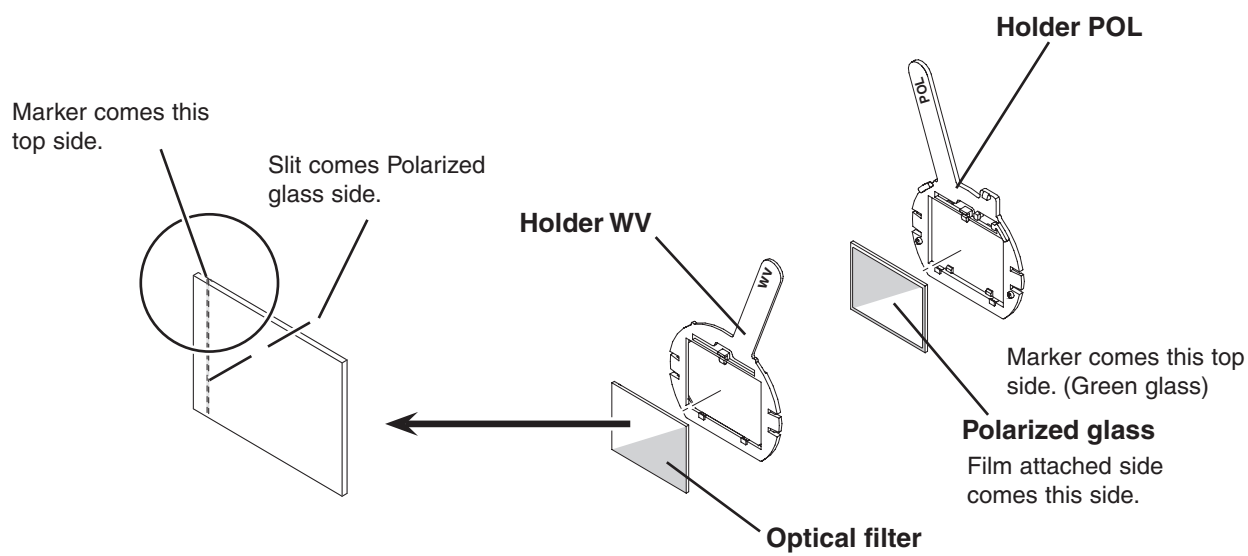


Fig.26a



27 Blue Polarized glass ass'y and Optical filter ass'y removal.

1. Remove 1 screw-A(M2.5X6) and remove the stopper.
2. Remove the Polarized glass ass'y and remove the Optical filter ass'y.

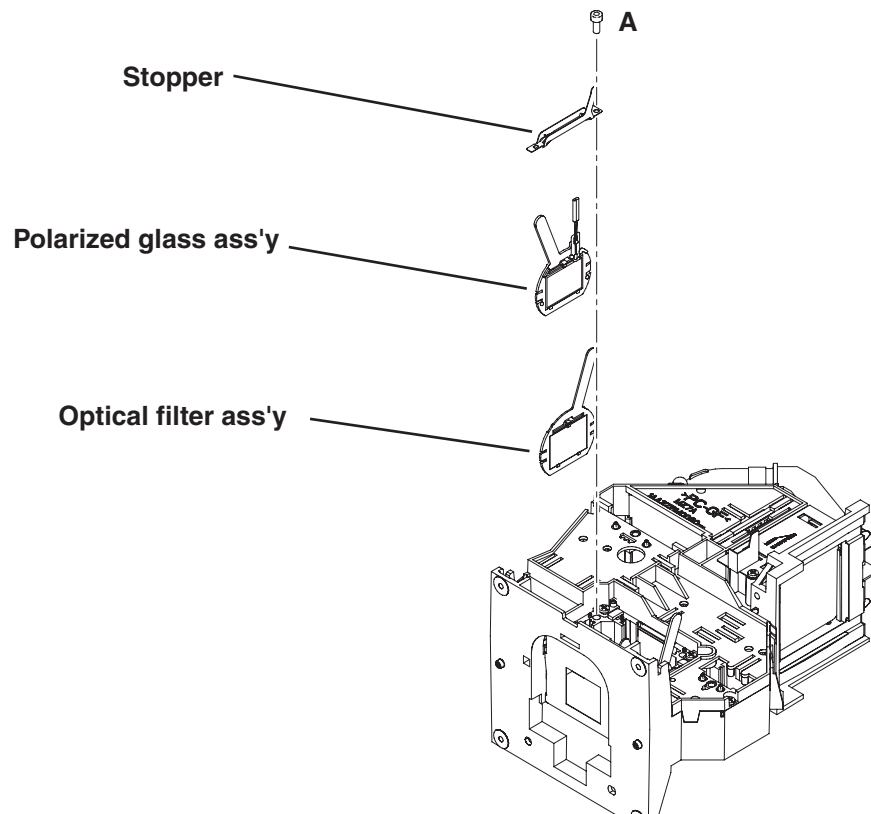


Fig.27a

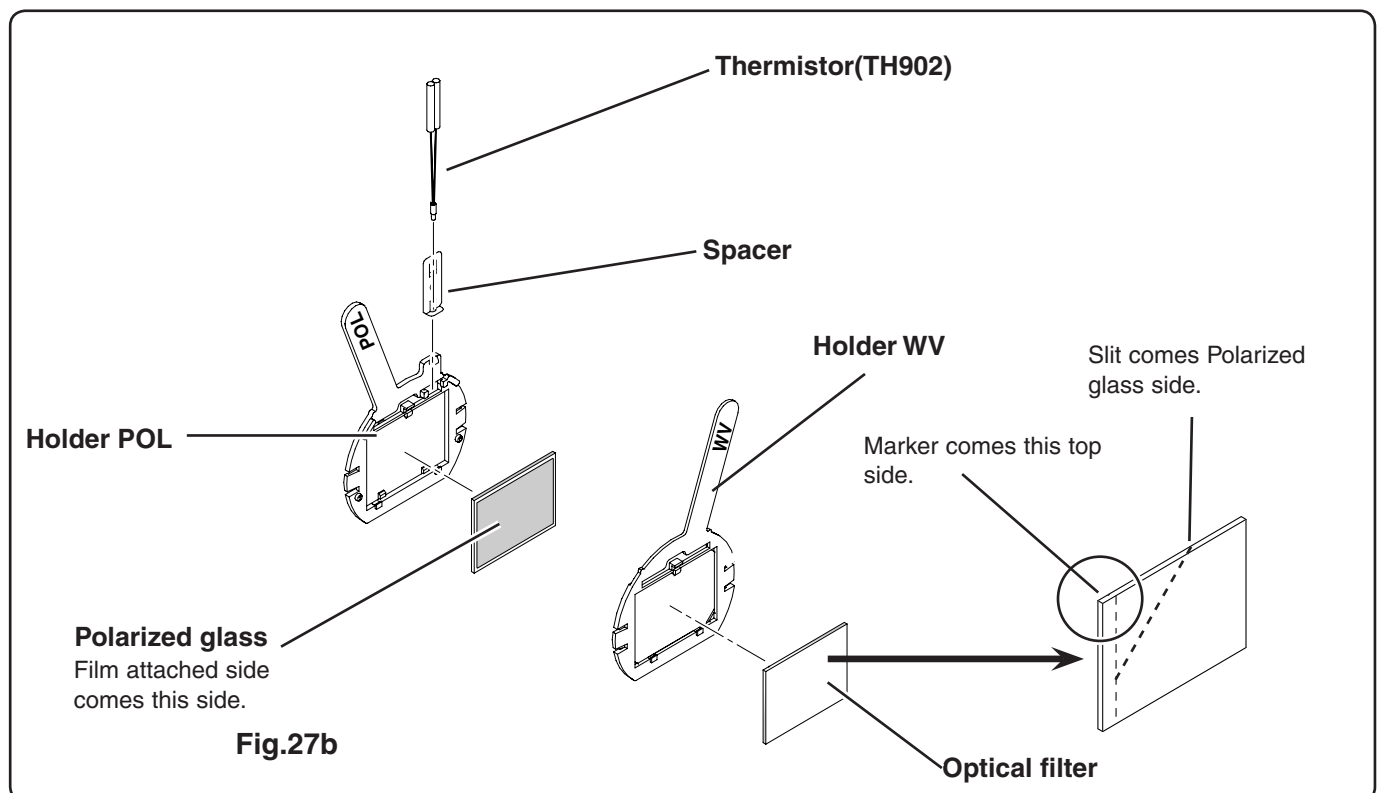


Fig.27b

28 Red Polarized glass ass'y and Optical filter ass'y removal.

1. Remove 1 screw-A(M2.5X6) and remove the stopper.
2. Remove the Polarized glass ass'y and remove the Optical filter ass'y ass'y.

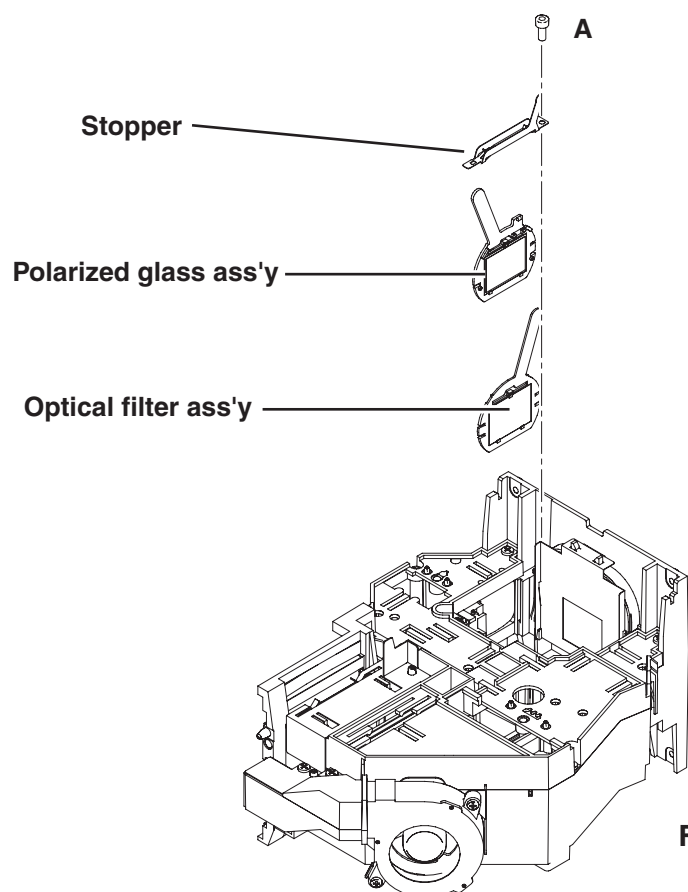


Fig.28a

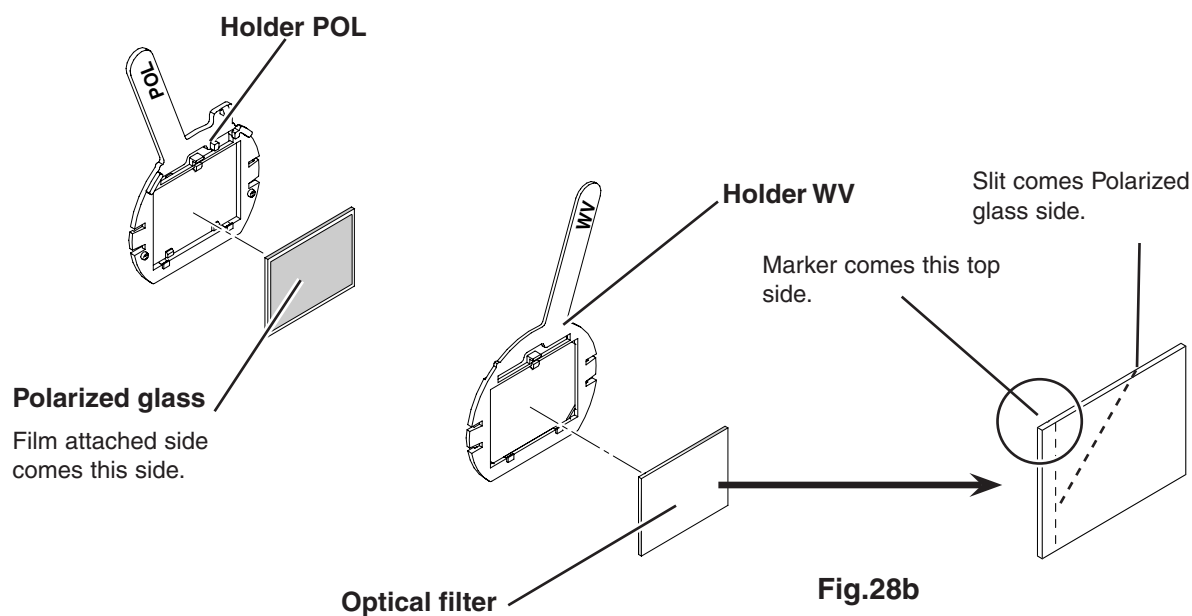
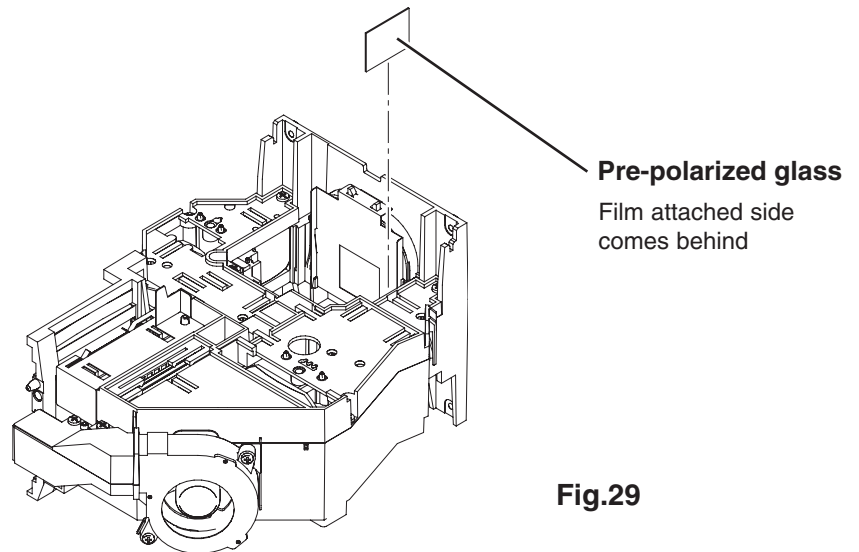


Fig.28b

29 Blue Pre-polarized glass removal.

1. Remove the Blue Pre-plarized glass upward.



30-1 Optical base top removal-1.

1. Remove 2 screws-A(T3X10) and remove the Stopper lens.

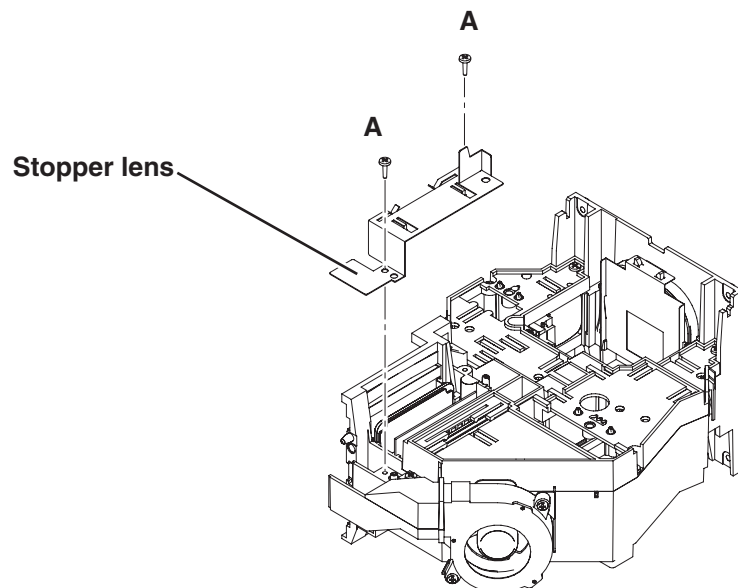
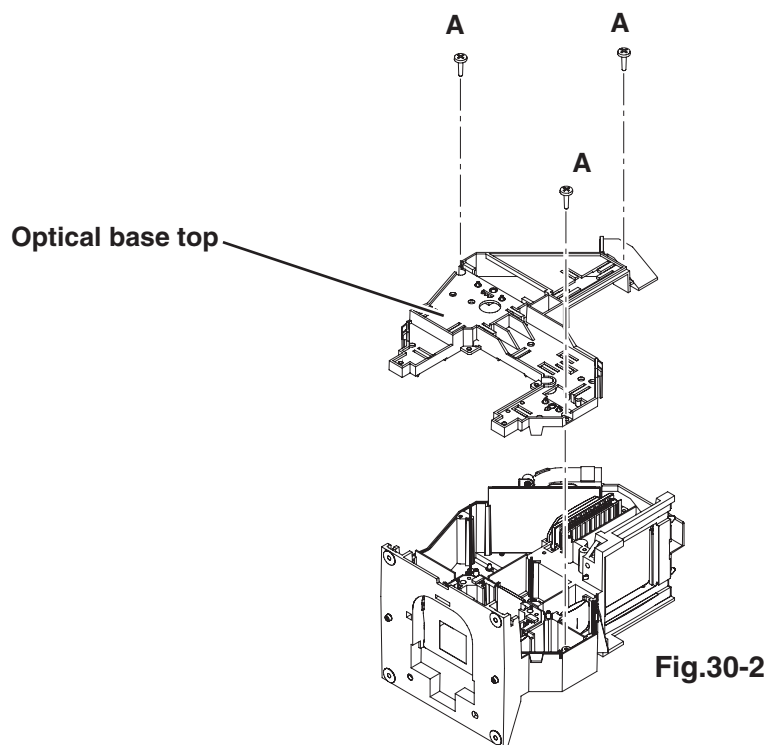


Fig.30-1

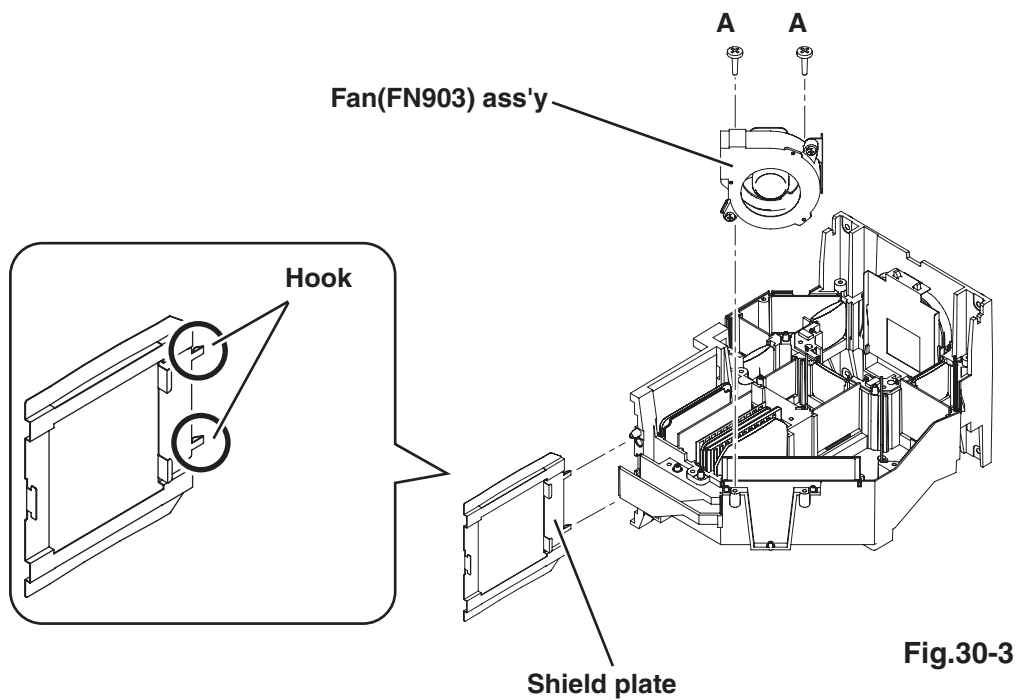
30-2 Optical base top removal-2.

1. Remove 3 screws-A(T3X10) and remove the optical base top.



30-3 Optical base top removal-3.

1. Remove 2 screws-A(T3X10) and remove the Fan(FN903) ass'y.
2. Unhook 2 hooks and pull out the Shield plate.



31 Fan(FN903) ass'y disassemblies.

1. Remove 2 screws-A(M3X8) and remove the Fan(Fn903).

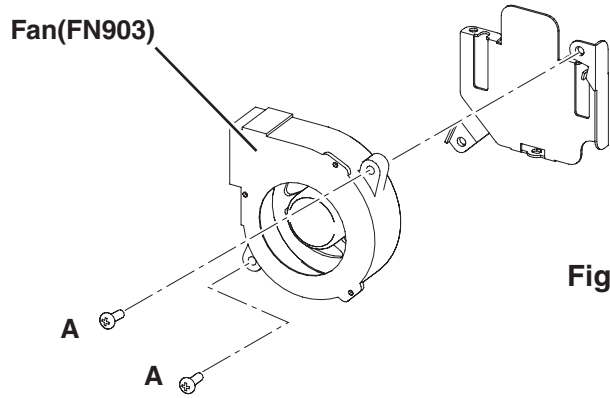
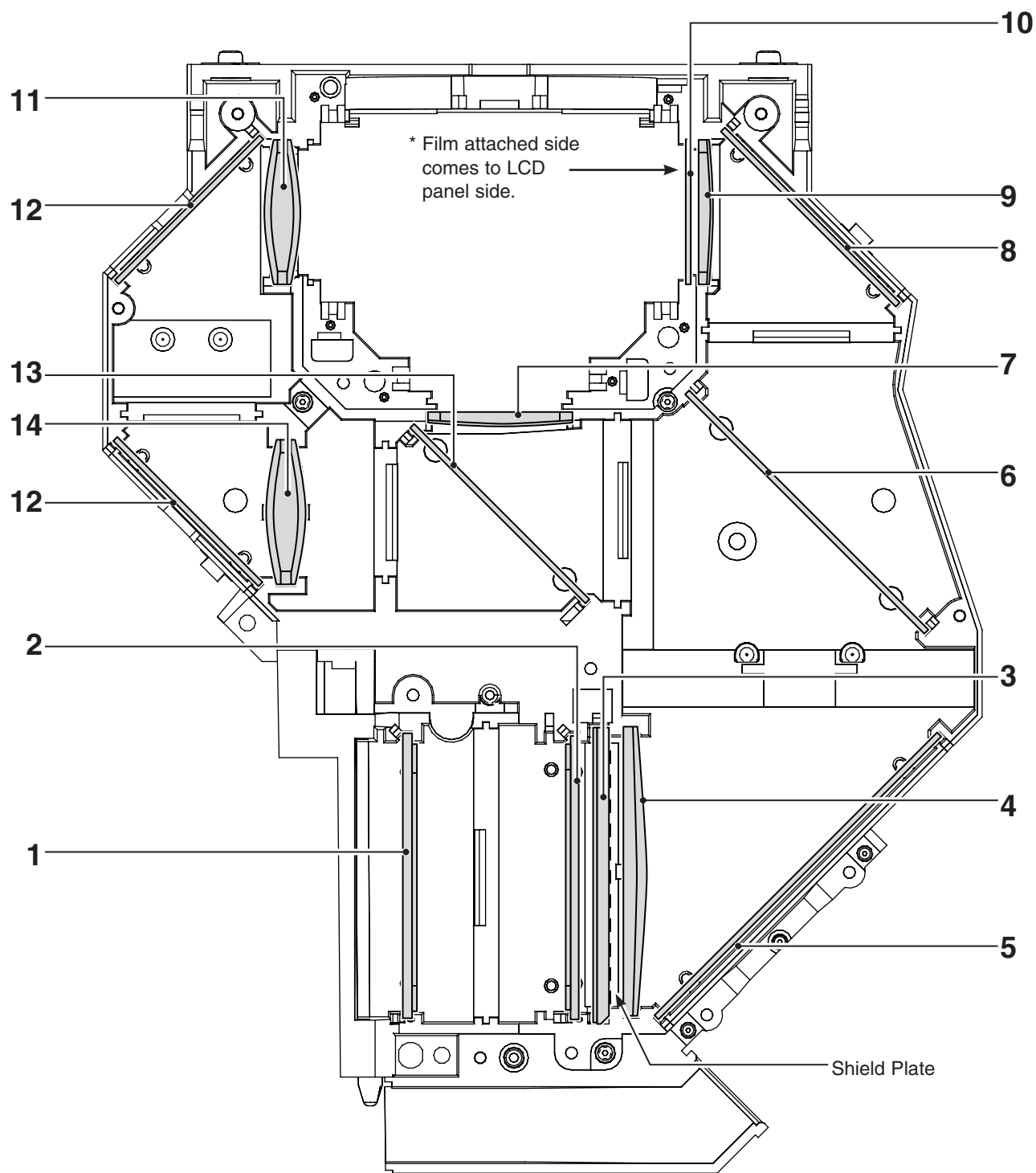
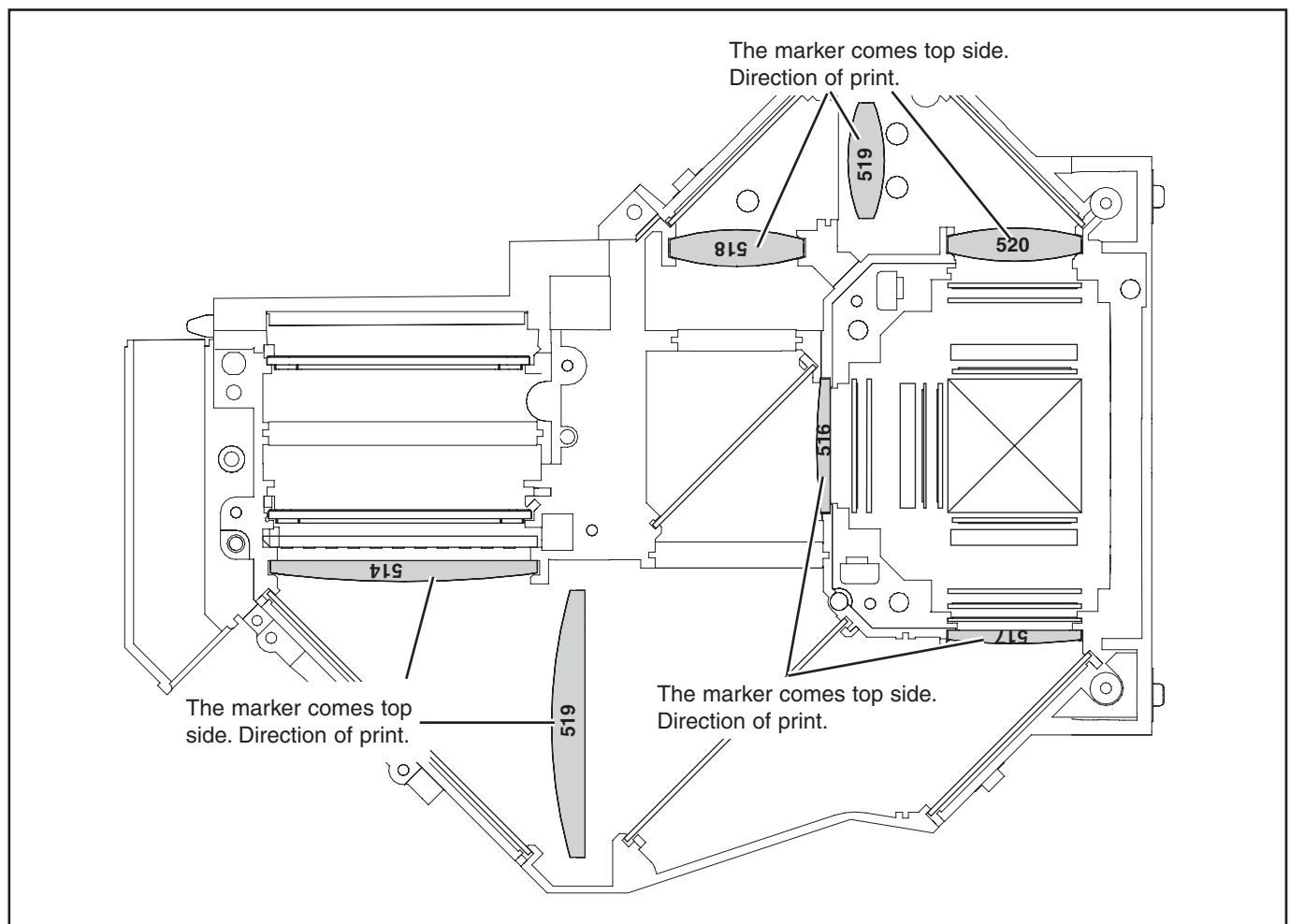


Fig.31

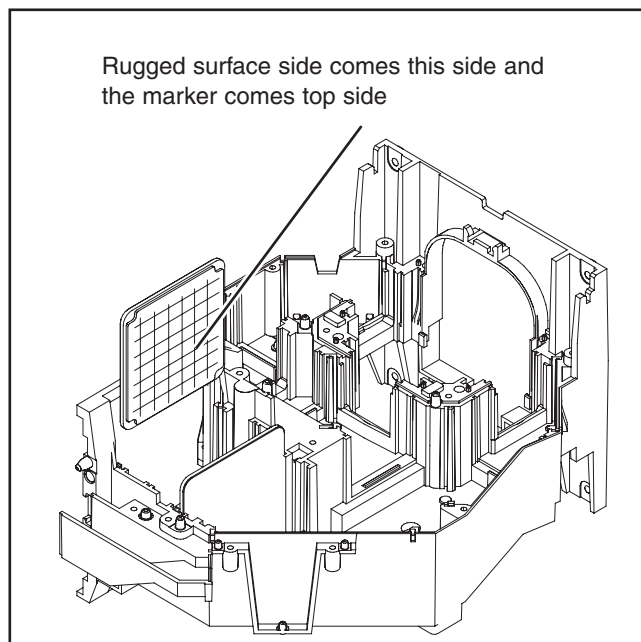
Optical parts locations and directions in the Optical Unit

No.	Parts Name	No.	Parts Name
1	LENS, INTEGRATOR(IN)	8	MIRROR(B)
2	LENS, INTEGRATOR(OUT)	9	LENS, CONDENSER(B)
3	ASSY, PRISM(PBS)	10	PREPOLARIZED GLASS(IN)
4	LENS, CONDENSER(IN)	11	LENS, CONDENSER(R)
5	MIRROR(W-COLD)	12	MIRROR(R)
6	DICHROIC MIRROR (B)	13	DICHROIC MIRROR (G)
7	LENS, CONDENSER(G)	14	LENS, RELAY(IN)

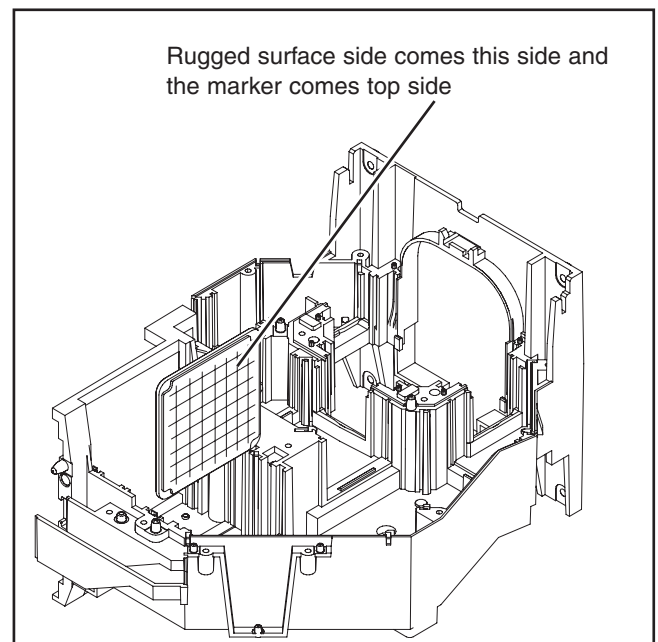


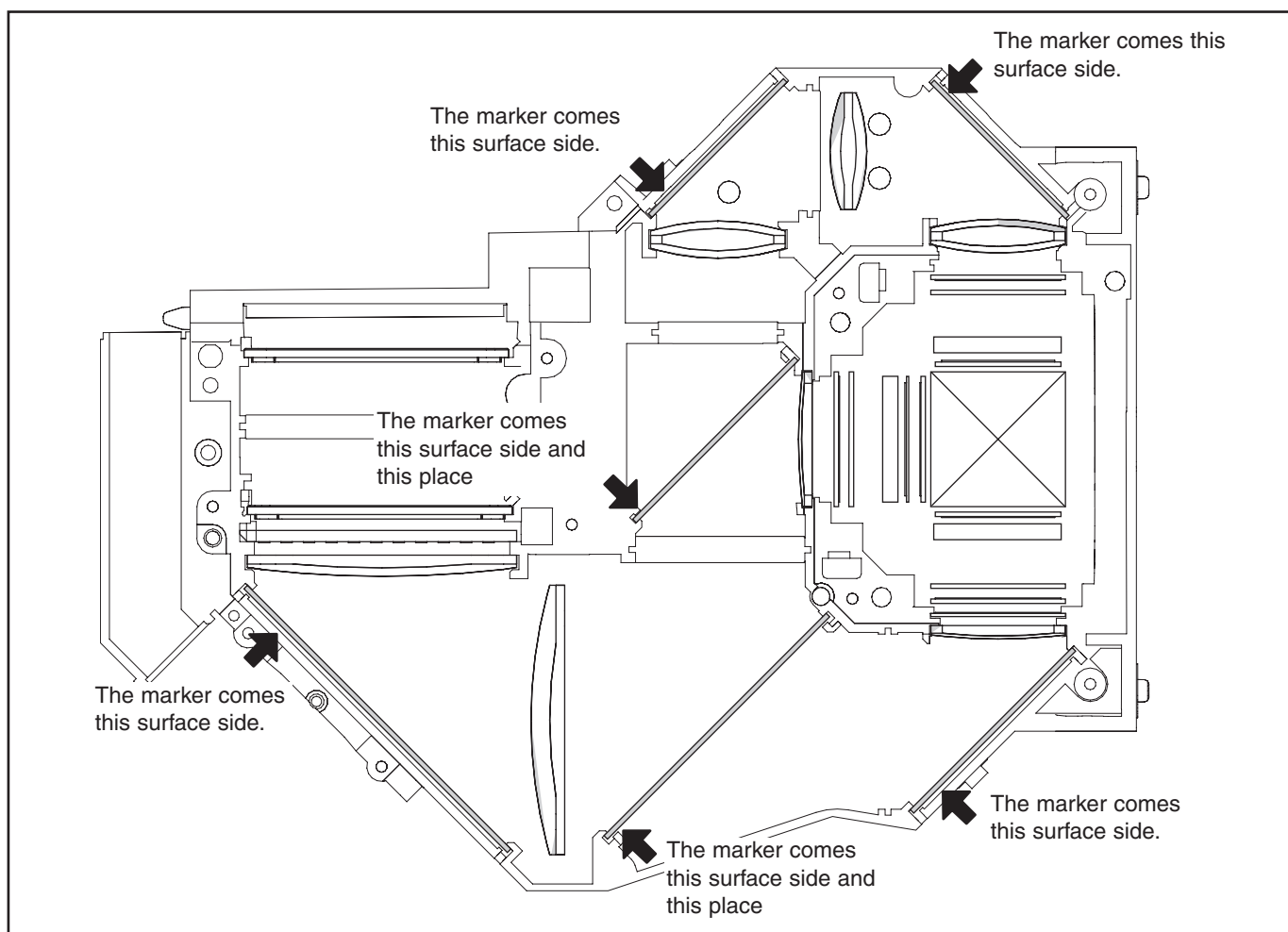


Integrator lens (IN)

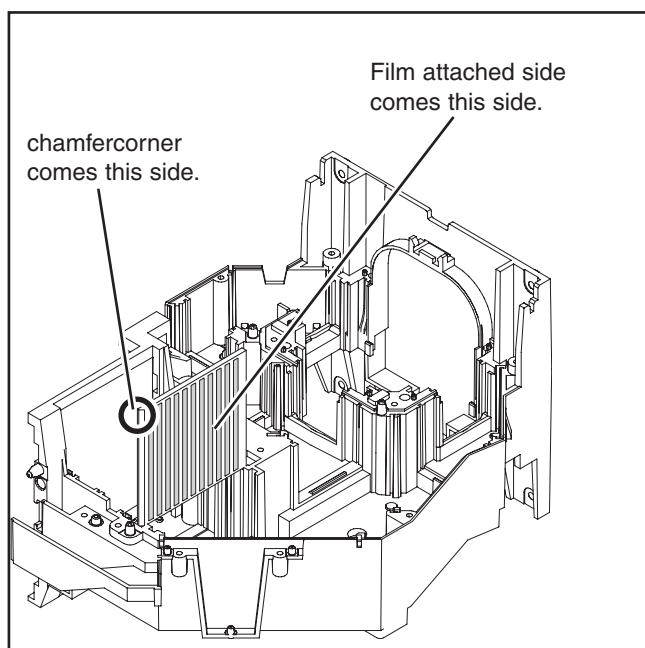


Integrator lens (OUT)





PBS



Adjustments

Adjustments after Parts Replacement

● : Adjustment necessary ○ : Check necessary

		Disassembly / Replaced Parts									
		LCD/ Prism Ass'y	Conden- sor Lens	Relay Lens (OUT)	Polarized Glass (POL)	Optical Filter (WV)	Integ- rator Lens	PBS	Power Board	Main Board	Fans
Optical Adjustment	Optical axes adjustment	●	●	●			●	●			
	Contrast adjustment (POL)	●			●						
	Contrast adjustment (WV)	●				●					
Electrical Adjustments	Fan control adjustment								●	●	●
	Panel type check and setting	●								●	
	PC-Auto calibration adjustment									●	
	Video-Auto calibration adjustment									●	
	480i-Auto calibration adjustment									●	
	Common center adjustment	○								●	
	50% luminance adjustment [PC]									●	
	50% luminance adjustment [Video]									●	
	White balance adjustment [PC]	○								●	
	White balance adjustment [Video]	○								●	
	White uniformity adjustment	○								○	
	Filter calibration adjustment								●	●	●

Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top following to the "Mechanical Disassemblies".

Adjustments require a 2.0mm hex wrench, Philips Screwdriver and a slot screwdriver. When you adjust Integrator lens or Relay lens adjustment, you need to disconnect some connectors and FPC cables of LCD panels on the main board. When adjusting optical component, adjust each adjustment item in numerical order. Incorrect adjustment steps may produce improper adjustment. The items adjusted correctly can be omitted from the steps.

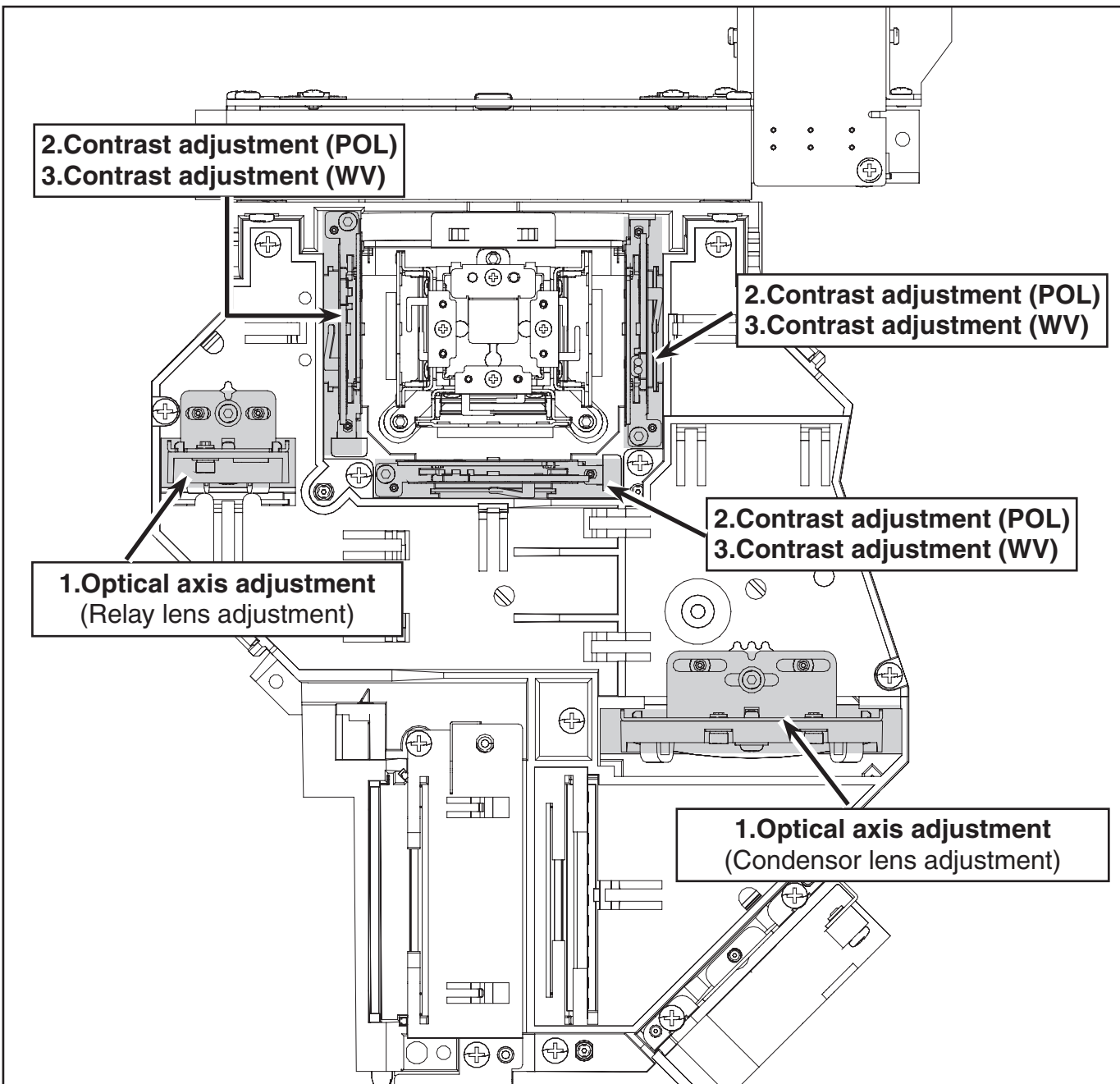
Note: Do not disconnect connectors on the main board, because the projector can not turn on or operate properly for adjustment.



**WARNING : USE UV RADIATION EYE AND SKIN PROTECTION
DURING SERVICING**



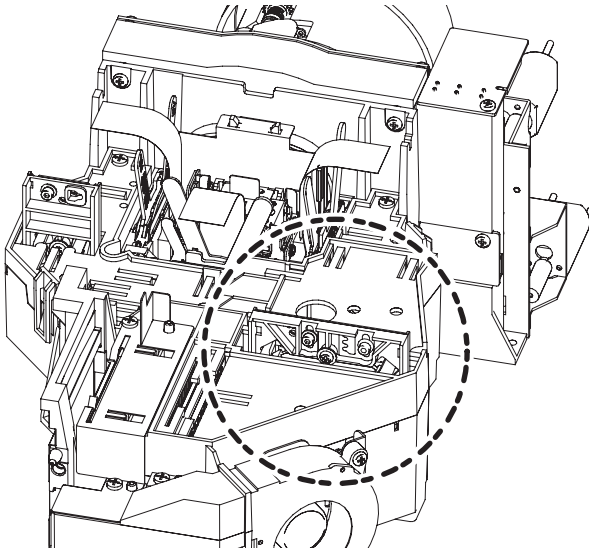
**CAUTION: To prevent suffer of UV radiation, those adjustments
must be completed within 25 minutes.**



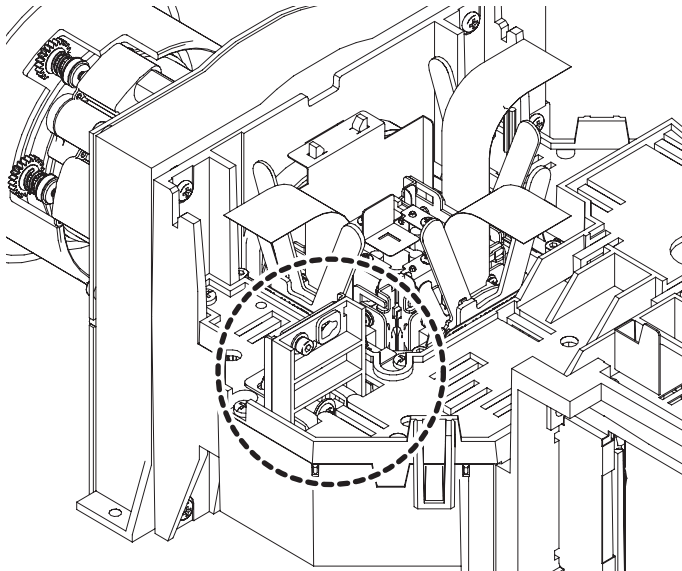
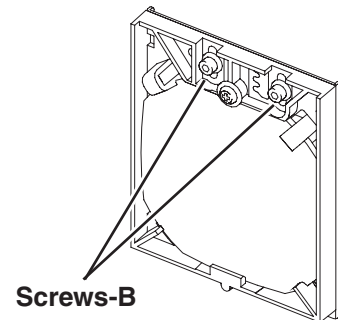
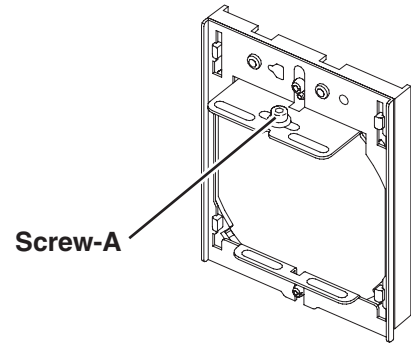
1. Optical axis adjustment

Before adjustment

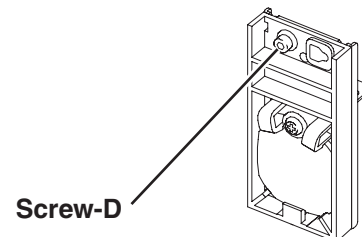
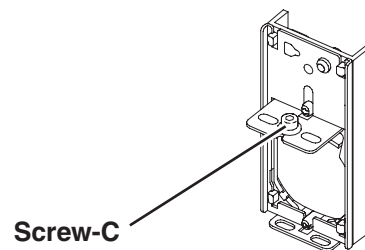
1. Turn the projector on by a state of without FPC cables.
2. Condenser lens adjustment
Loosen 1 screw A and 2 screws B.
3. Relay lens adjustment
Loosen 1 screw C and 1 screw D.



Condenser lens adjustment

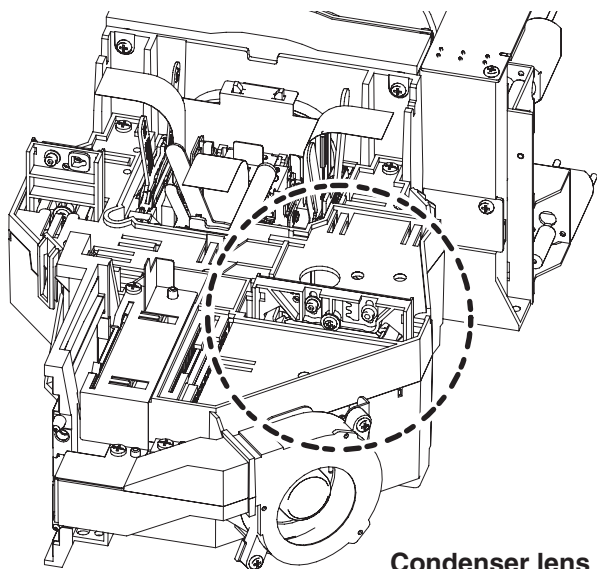


Relay lens adjustment

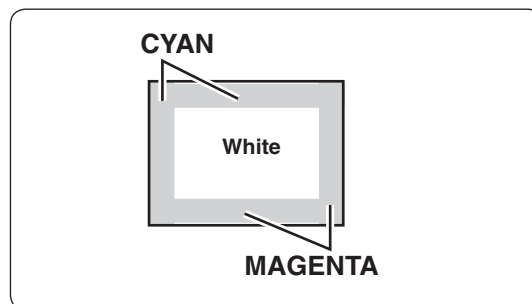
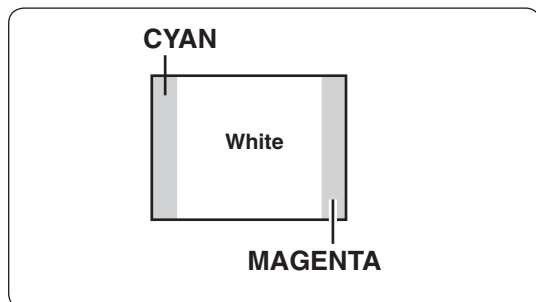
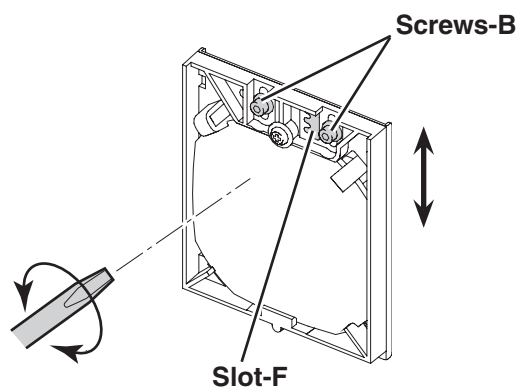
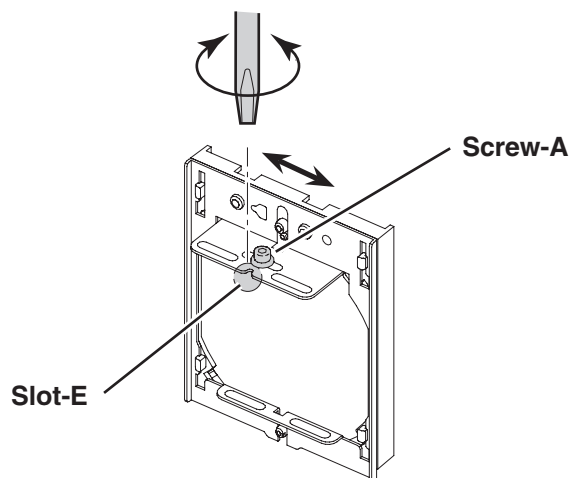


Condenser lens adjustment-1

1. Adjust the slot E to make shading appears on the right and left(magenta and cyan) of the screen as shown in figure.
2. Adjust the slot F to make shading appears on the top and bottom(cyan and magenta) of the screen as shown in figure.



Condenser lens adjustment -1



Relay lens adjustment

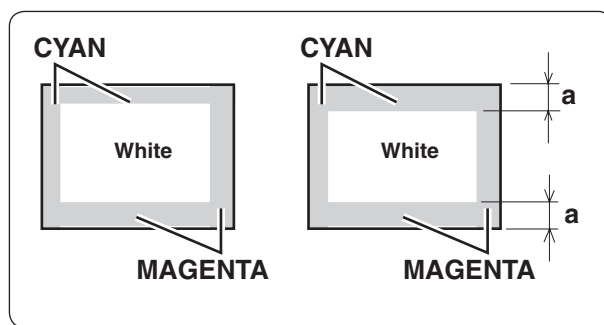
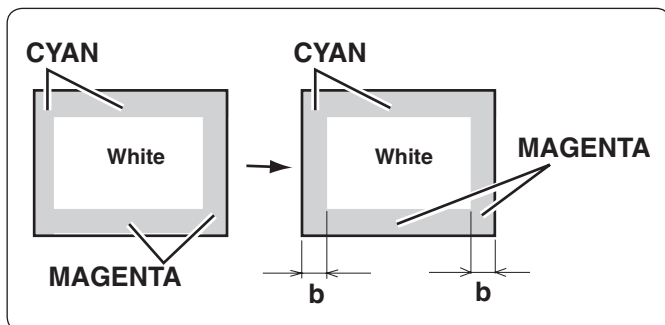
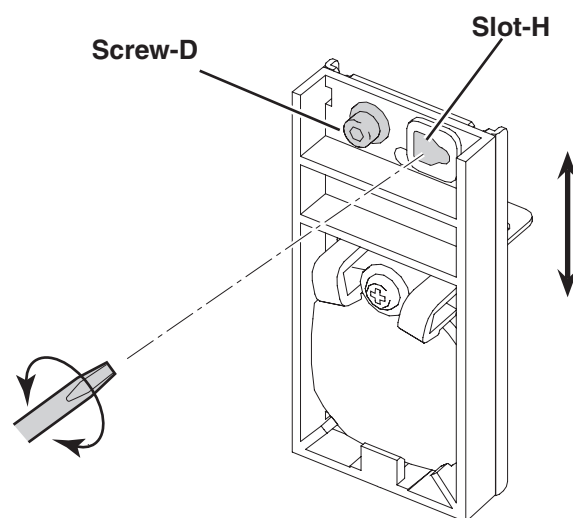
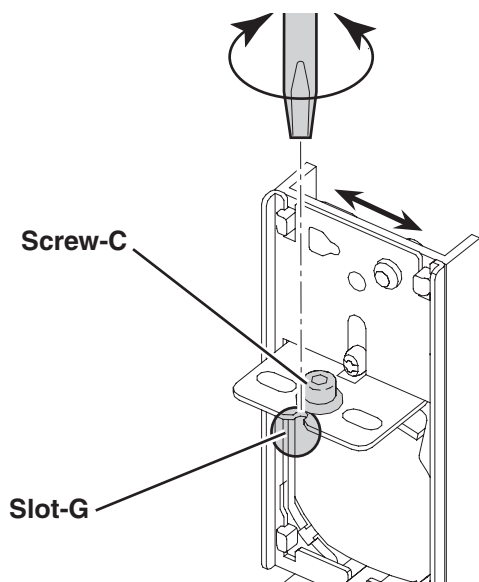
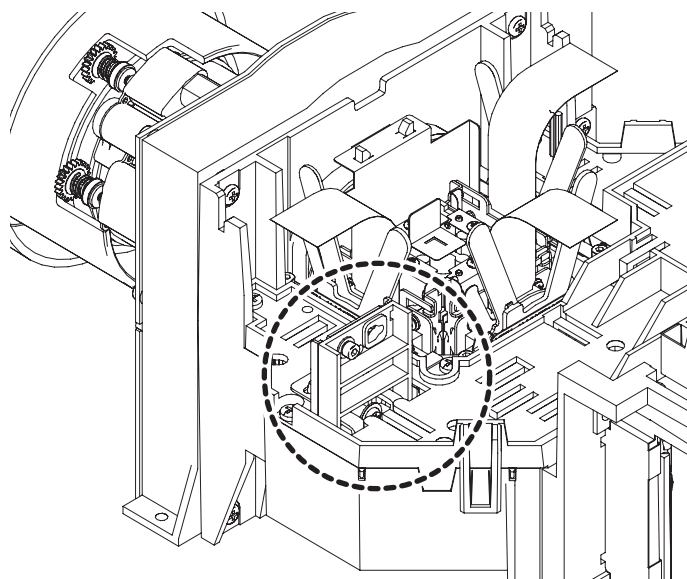
3. Adjust the slot G.

It is adjusted that cyan and the magenta in the top and bottom part become the same width.

4. Adjust the slot H.

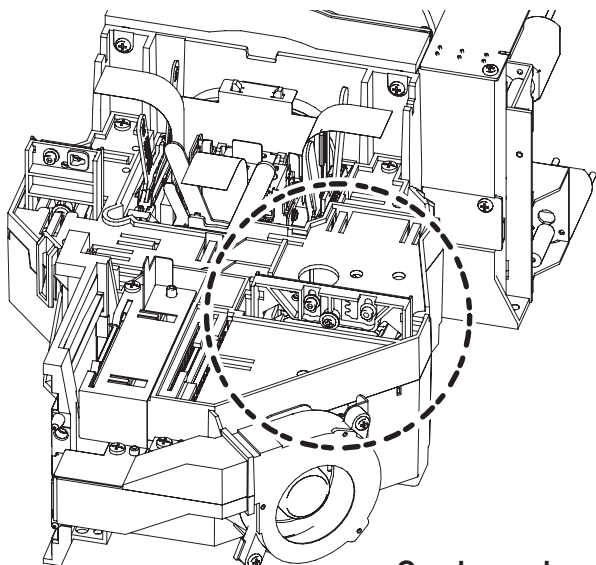
It is adjusted that cyan and the magenta in the right and left part become the same width.

5. Tighten screw C and screw D to fix the relay lens unit.

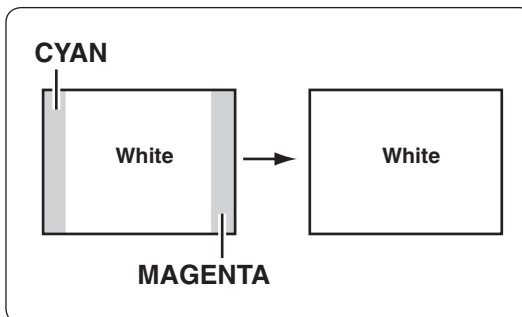
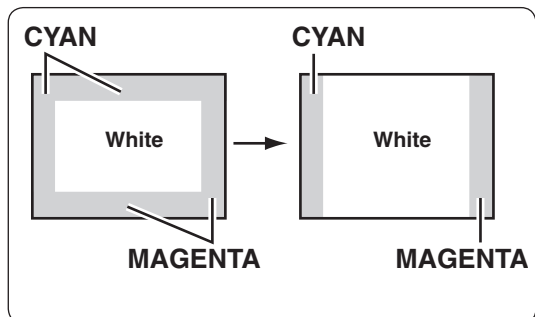
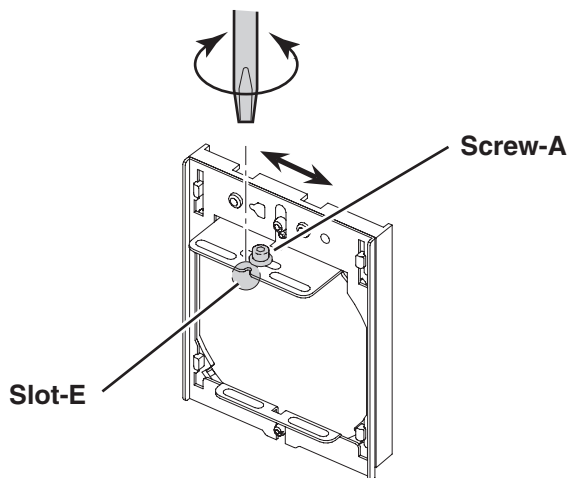
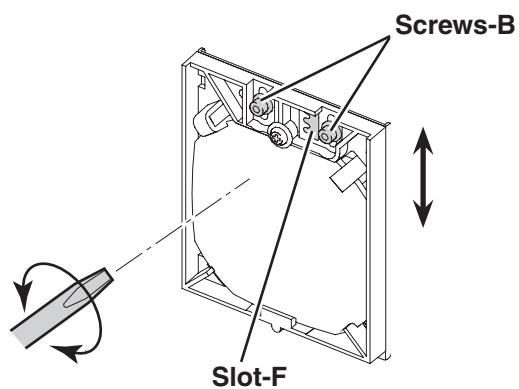


Condenser lens adjustment-2

6. Adjust the slot F to make color uniformity in white by using a slot screwdriver.
(Top and bottom shading are erased.)
7. Adjust the slots E to make color uniformity in white by using a slot screwdriver.
(Right and left shading are erased.)
8. Tighten 1 screws **A** and 2 screws **B** to fix the integrator lens unit.



Condenser lens adjustment -1



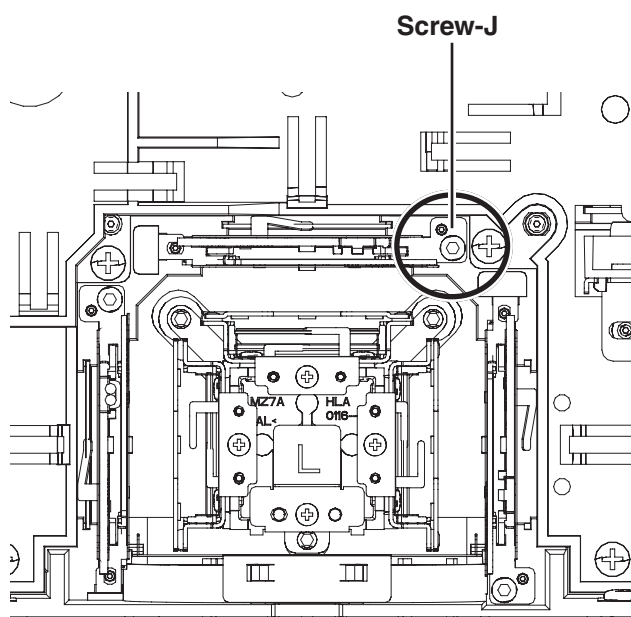
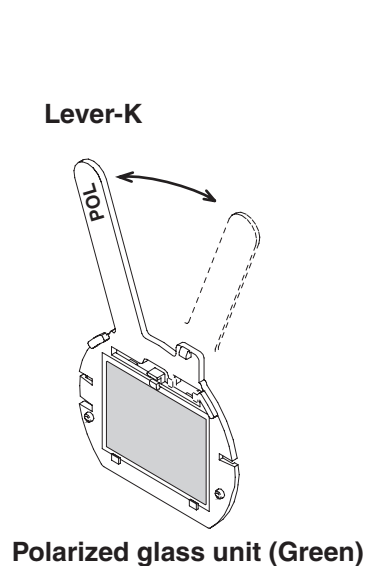
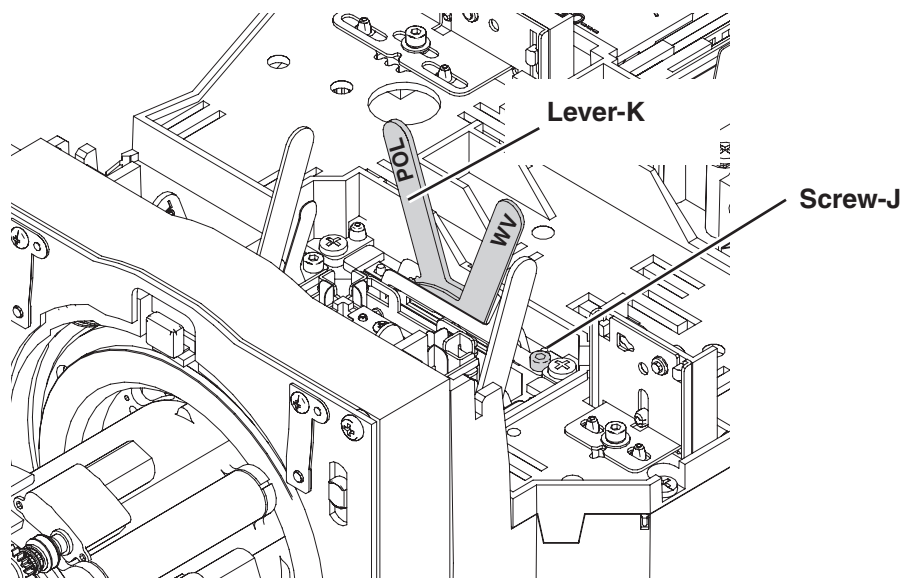
2. Contrast adjustment (POL)

[Before Adjustment]

- Input a 100% of black raster signal.

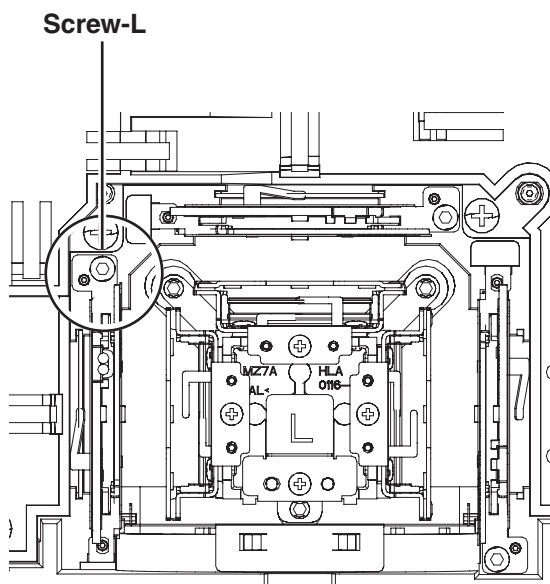
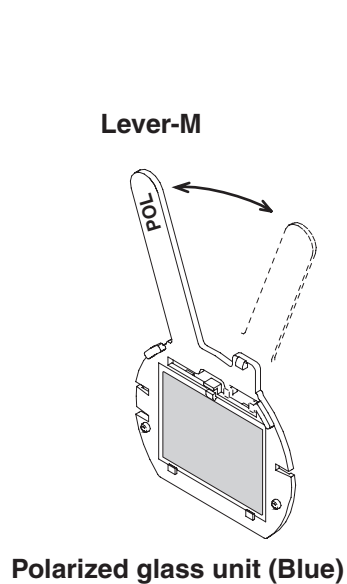
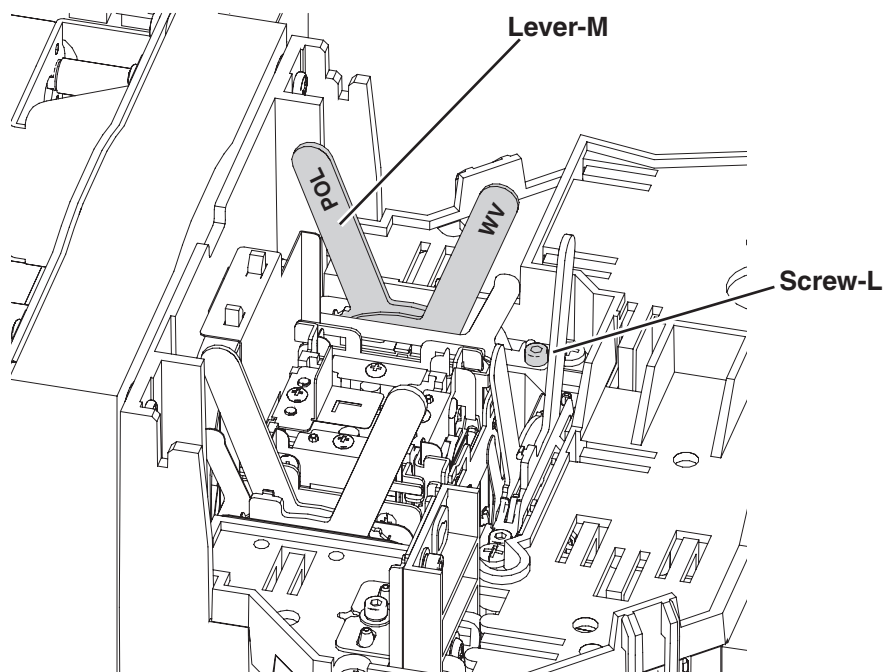
G-Contrast adjustment (POL)

1. Loosen a screw **J** on the stopper plate which you intend to adjust.
2. Adjust the lever **K** (POL) to obtain the darkest brightness on the screen.
(This screw **J** is tightened later. this screw is tightend after Optical filter adjustment.)



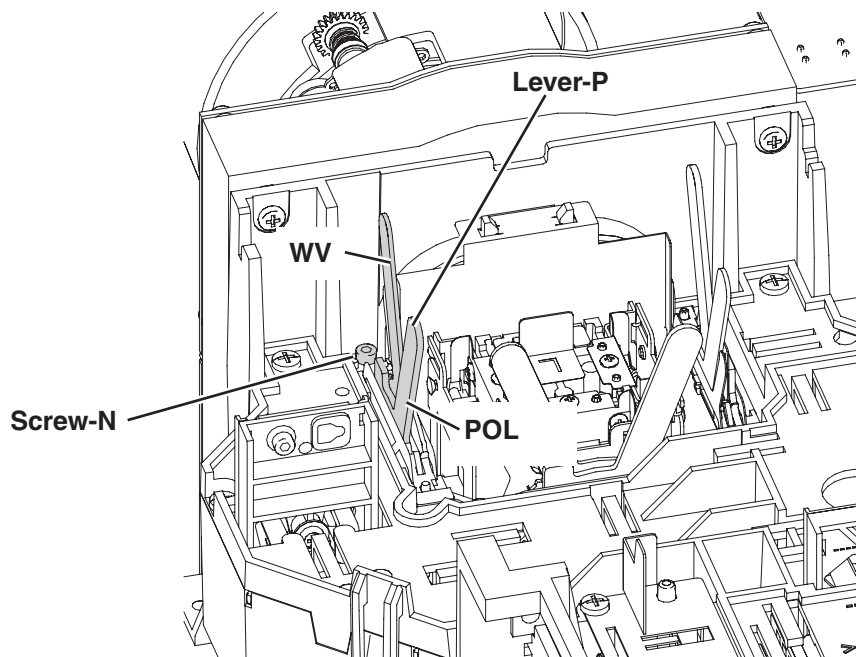
B-Contrast adjustment (POL)

1. Loosen a screw **L** on the stopper plate which you intend to adjust.
2. Adjust the lever **M** (POL) to obtain the darkest brightness on the screen.
(This screw **L** is tightened later. this screw is tightend after Optical filter adjustment.)

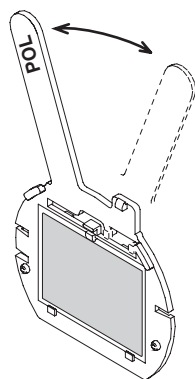


R-Contrast adjustment (POL)

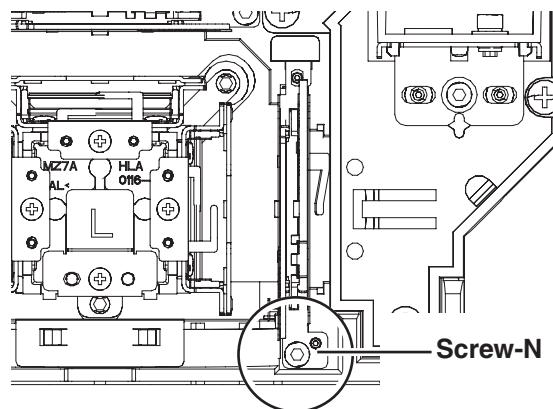
1. Loosen a screw **N** on the stopper plate which you intend to adjust.
2. Adjust the lever **P** (POL) to obtain the darkest brightness on the screen.
(This screw **N** is tightened later. this screw is tightend after Optical filter adjustment.)



Lever-P



Polarized glass unit (Red)



3. Contrast adjustment (WV)

[Before Adjustment]

- Input a 100% of black raster signal.

G-Contrast adjustment (WV)

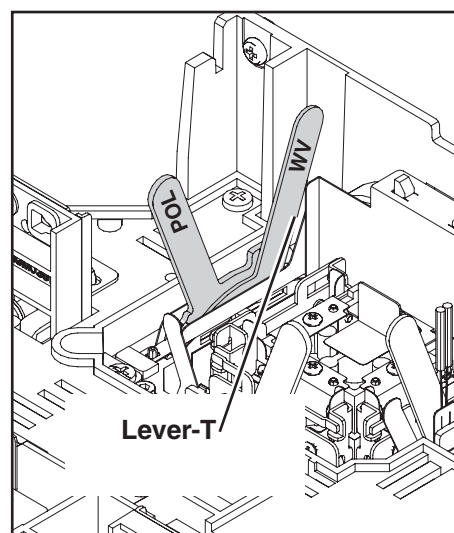
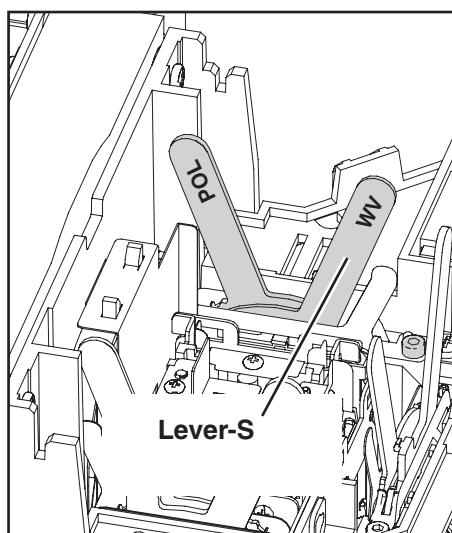
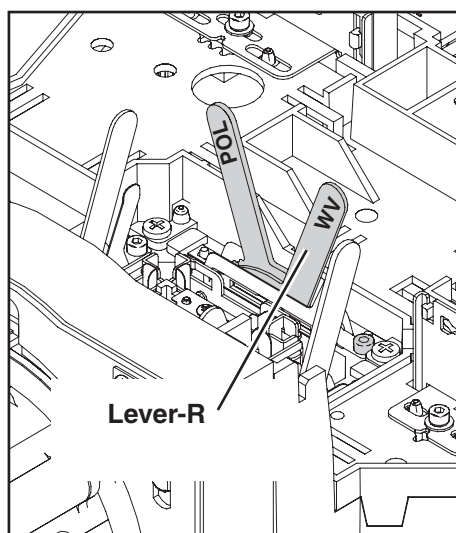
1. Adjust the lever **R** (WV) to obtain the darkest brightness on the screen.
2. Tighten the screw **J**.

B-Contrast adjustment (WV)

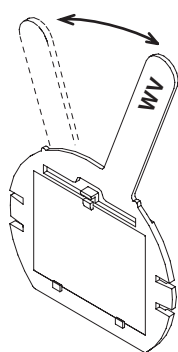
1. Adjust the lever **S** (WV) to obtain the darkest brightness on the screen.
2. Tighten the screw **L**.

R-Contrast adjustment (WV)

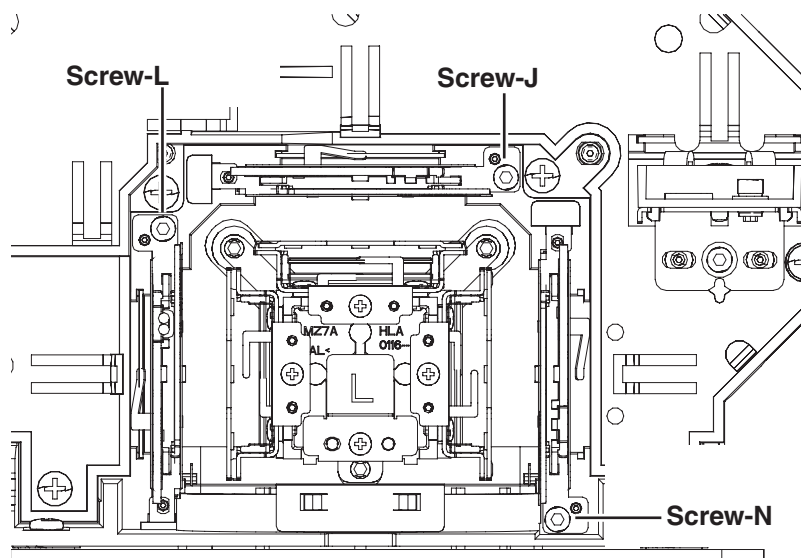
1. Adjust the lever **T** (WV) to obtain the darkest brightness on the screen.
2. Tighten the screw **N**.



Lever-R, S, T



Optical filter unit (R, G, B)



Electrical Adjustments

Service Adjustment Menu Operation

To enter the service mode

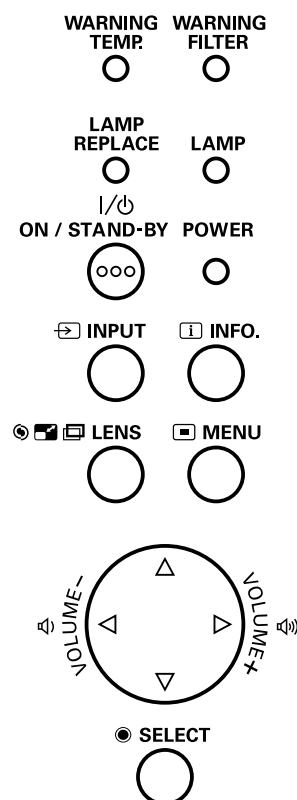
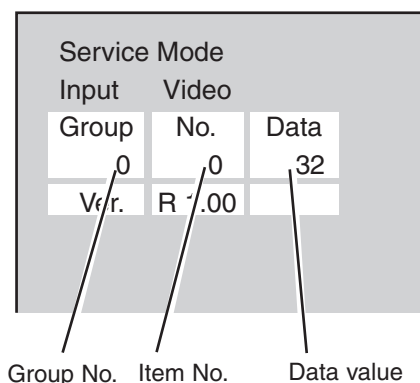
To enter the “Service Mode”, press and hold the **MENU** and **SELECT** button for more than 3 seconds. The service menu appears on the screen as follows.

To adjust service data

Select the adjustment group no. by pressing the **MENU** button (increase) or **SELECT** button (decrease), and select the adjustment item no. by pressing the pointer **▲** or **▼** button, and change the data value by pressing the **◀** or **▶** button. Refer to the “Service Adjustment Data Table” for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **ON/STAND-BY** button.



Memory IC (IC1391) Replacement

Memory IC on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.

If replaced, the re-adjustments are required following to the “Electrical Adjustments”.

The data of lamp replacement counter is stored in the Memory IC.

Please note that the lamp replace counter will be reset when the memory IC is replaced.

(Lamp replace counter cannot be set to the previous value.)

● Caution to memory IC replacement

When memory IC is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC as the mentioned on the service adjustment table. As these data are not the same data as

factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.

Please note that in this case the lamp replace counter will be reset.

● Caution of Main Board replacement (in the case memory IC is not defective)

When the main board is replaced, memory IC should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.

In this case, the lamp replace counter can be kept the value as before.

Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.



WARNING : USE UV RADIATION EYE AND SKIN PROTECTION DURING SERVICING.



CAUTION:
To prevent suffer of UV radiation, those adjustments must be completed within 25 minutes.

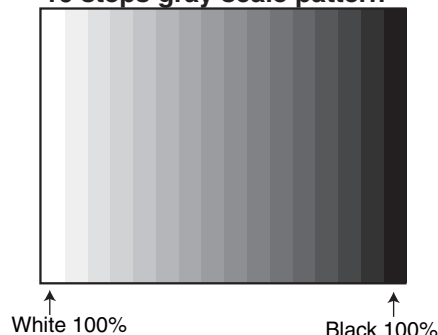
[Adjustment Condition]

- Input signal
 - Video signal1.0Vp-p/75Ω terminated, 16 steps gray scale (Composite video signal)
 - Computer signal.....0.7Vp-p/75Ω terminated, 16 steps gray scale pattern
 - Component Video signal.....0.7Vp-p/75Ω terminated, 16 steps gray scale (Component video signal with 480p, 575p, 720p or 1080i format)
- Picture control mode“STANDARD” mode unless otherwise noted.

Note:

* Please refer to “Service Adjustment Menu Operation” for entering the service mode and adjusting the service data.

16 steps gray scale pattern



1 Fan Voltages adjustment

- Enter the service mode.
- Connect a digital voltmeter to test point **A** (+) and chassis ground (-). (6 test points are provided for this adjustment, perform all the voltage adjustments in the table below.)
- Select group no. “**250**”. Select item no. **B** and change data value to adjust the voltage to be **C** $\pm 0.05V$, and select item no. **D** and change data value to adjust the voltage to be **E** $\pm 0.05V$.
- Repeat step 2 to 3 for the remaining test points in the table below.

Test Point A	Item B	Voltage C	Item D	Voltage E
TPFAN1	0	4.5	1	13.8
TPFAN2	2	4.5	3	13.8
TPFAN3	4	4.5	5	13.8
TPFAN4	6	4.5	7	13.8

2 Panel Type Check and Setting

* Before setting, you need to check which type of LCD panel is placed on the projector according to the item "LCD Panel/Prism Ass'y removal" in the chapter "Optical Parts Disassembly".

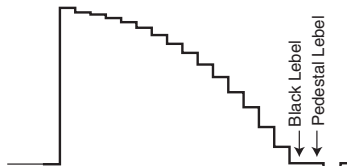
- Enter the service mode.
- Panel Type Check
Select group no. “**290**”, item no. “**0**”. Check the data value as follows;
Data value: 0 For L-Type of LCD Panel
Data value: 20 For R-Type of LCD panel
- Panel Type Setting
Select group no. “**290**”, item no. “**1**” and change data value from 10 to 0 or 20 depending on your LCD Panel type. When the data value reaches 0 or 20, it returns to 10 quickly. The gamma-characteristics changes according to your selection.

3 PC-Auto Calibration adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Input1 [RGB]** mode.
3. To start the auto-calibration for PC adjustment, select group no. "260", item no. "0" and then change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.

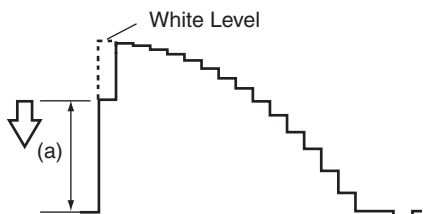
3 PC-Pedestal adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Input1 [RGB]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "0", item no. "0" and change data value to adjust the pedestal level and black level to be the same level.
5. Connect an oscilloscope to test point "TP35R" (+) and chassis ground (-).
6. Select item no. "1" and change data value to adjust the pedestal level and black level to be the same level.
7. Connect an oscilloscope to test point "TP35B" (+) and chassis ground (-).
8. Select item no. "2" and change data value to adjust the pedestal level and black level to be the same level.



3 PC-Gain adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale computer signal with **Input1 [RGB]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "0", item no. "3" and adjust the amplitude "a" to be minimum by changing the Data value.
5. Connect an oscilloscope to test point "TP35R" (+) and chassis ground (-).
6. Select group no. "0", item no. "4" and adjust the amplitude "a" to be minimum by changing the Data value.
7. Connect an oscilloscope to test point "TP35B" (+) and chassis ground (-).
8. Select group no. "0", item no. "5" and adjust the amplitude "a" to be minimum by changing the Data value.



4 Video-Auto Calibration adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Input3 [Video]** mode.
3. To start the auto-calibration for Video adjustment, select group no. "260", item no. "0" and then change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.

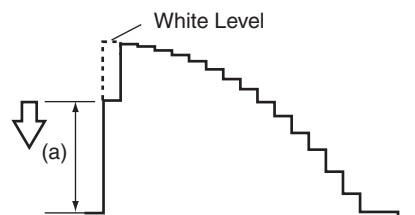
5 480i-Auto Calibration adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component video signal with **Input2 [Component]** mode.
3. To start the auto-calibration for 480i-component adjustment, select group no. "260", item no. "0" and then change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.

Perform these manual adjustments instead of the Auto-Calibration adjustment from [3] to [5] when the auto-calibration is failed.

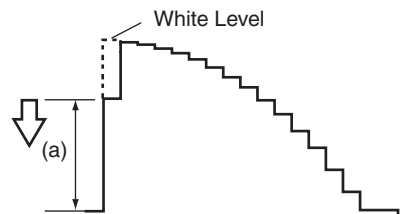
4 Video-Gain adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale composite video signal with **Input3 [Video]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "20", item no. "2" and adjust the amplitude "a" to be minimum by changing the Data value.



5 480i-Gain adjustment

1. Enter the service mode.
2. Receive the 16-step grey scale 480i-component video signal with **Input2 [Component]** mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "20", item no. "0" and adjust the amplitude "a" to be minimum by changing the Data value.

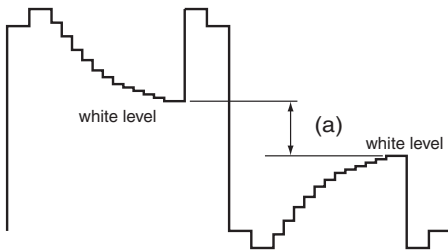


6 Common Center adjustment

1. Receive the 50%-Whole Gray computer signal with **Input1 [RGB]** mode.
2. Enter the service mode.
3. Select group no. "100", item no. "92" and change data value to "2" to reduce the panel frequency.
4. Project only red light component to the screen.
5. Select group no. "101", item no. "0" and change data value to obtain the minimum flicker on the screen.
6. Project only green light component to the screen.
7. Select item no. "1" and change data value to obtain the minimum flicker on the screen.
8. Project only blue light component to the screen.
9. Select item no. "2" and change data value to obtain the minimum flicker on the screen.
10. Select group no. "100", item no. "92" and change data value to "0" to reset the panel frequency.

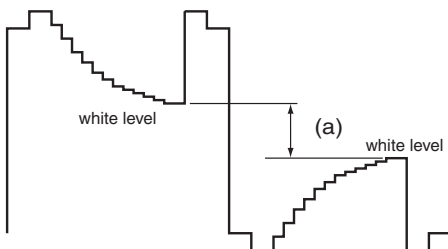
7 50% luminance adjustment [PC]

1. Receive the 16-step grey scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "100", item no. "6" and change data value to adjust amplitude "a" to be $1.1 \pm 0.1V$.



8 50% luminance adjustment [Video]

1. Receive the 100%whole-white composite video signal with **Input3 [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "TP35G" (+) and chassis ground (-).
4. Select group no. "100", item no. "6" and change data value to adjust amplitude "a" to be $2.2 \pm 0.1V$.



9 White Balance adjustment [PC]

1. Receive the 16-step gray scale computer signal with **Computer1 [RGB]** mode.
2. Enter the service mode, select group no. "100" item no. "7" (Red) or "8" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

10 White Balance adjustment [Video]

1. Receive the 16-step grey scale composite video signal with **Video** mode.
2. Enter the service mode, select group no. "100" item no. "7" (Red) or "8" (Blue), and change Data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

11 White Uniformity Adjustment

If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately.

The software can be ordered as follows;

COLOR SHADING CORRECTION Ver. 4.00

Service Parts No. 645 075 9611

12 Filter Calibration adjustment

1. Enter the service mode, select group no. "251" and item no. "0".
2. To start the adjustment, change data value from "0" to "1". After the auto-calibration completed, "OK" will appear on the screen.

IMPORTANT

This adjustment must be performed when the air filter is replaced with new one or cleaned up.

Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with “*” are required to readjust following to the “Electrical adjustments”. Other items should be used with the initial data value.

Group/Item	Item Name	Function	Initial	Range	Note
Group 0	AD Converter (PW190)				
0	ADC G-OFFSET	PC / Component / SCART	128/120/128	0 - 255	* G-Pedestal Adjustment [480i]
1	ADC R-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* R-Pedestal Adjustment [480i]
2	ADC B-OFFSET	PC / Component / SCART	128/140/128	0 - 255	* B-Pedestal Adjustment [480i]
3	ADC G-GAIN	PC / Component / SCART	50/50/50	0 - 255	* Gain Adjustment [480i]
4	ADC R-GAIN	PC / Component / SCART	40/40/40	0 - 255	
5	ADC B-GAIN	PC / Component / SCART	40/40/40	0 - 255	
6	GRAAFLTR/RBAAFLTR	Green (Red and Blue) Anti-Alias Filter	4 / R / R	0 - 7	
7	GRNAADWNSMPL / RBAAD-WNSMPL	Green (Red and Blue) Anti-Alias Down-sample	0 / R / R	0 - 3	Composite & S-Video / Component / PC
8	GRNAAHF / RBAAHF	Green (Red and Blue) Anti-Alias High Frequency	3 / R / R	0 - 3	*R: Read only value
10	SOGTH	PC / Component / SCART SyncOn Green Threhold	4 / 3 / 2	0 - 15	
11	SOGHYSDIS	PC / Component / SCART Sync On Green Hsysteresis Enable	0	0 - 1	
12	HS1TH		4	0 - 7	
13	HS0TH		4	0 - 7	
100	PreCoast PC Signal		3	0 - 63	
101	PostCoast PC Signal		8	1 - 63	
120	PreCoast PC Video 480i		7	0 - 63	
121	PostCoast PC Video 480i		13	0 - 63	
122	PreCoast PC Video 575i		7	0 - 63	
123	PostCoast PC Video 575i		13	0 - 63	
124	PreCoast PC Video 480p		7	0 - 63	
125	PostCoast PC Video 480p		13	0 - 63	
126	PreCoast PC Video 575p		7	0 - 63	
127	PostCoast PC Video 575p		13	0 - 63	
128	PreCoast PC Video 720p 60Hz		7	0 - 63	
129	PostCoast PC Video 720p 60Hz		13	0 - 63	
130	PreCoast PC Video 720p 50Hz		7	0 - 63	
131	PostCoast PC Video 720p 50Hz		13	0 - 63	
132	PreCoast PC Video 1080i 60Hz		7	0 - 63	
133	PostCoast PC Video 1080i 60Hz		13	0 - 63	
134	PreCoast PC Video 1080i 50Hz		7	0 - 63	
135	PostCoast PC Video 1080i 50Hz		13	0 - 63	
136	PreCoast PC Video 1035i		7	0 - 63	
137	PostCoast PC Video 1035i		13	0 - 63	
150	PreCoast YCbCr 480i		7	0 - 63	
151	PostCoast YCbCr 480i		13	0 - 63	
152	PreCoast YCbCr 575i		7	0 - 63	
153	PostCoast YCbCr 575i		13	0 - 63	
154	PreCoast YCbCr 480p		7	0 - 63	
155	PostCoast YCbCr 480p		13	0 - 63	
156	PreCoast YCbCr 575p		7	0 - 63	
157	PostCoast YCbCr 575p		13	0 - 63	
158	PreCoast YCbCr 720p 60Hz		7	0 - 63	
159	PostCoast YCbCr 720p 60Hz		13	0 - 63	
160	PreCoast YCbCr 720p 50Hz		7	0 - 63	
161	PostCoast YCbCr 720p 50Hz		13	0 - 63	
162	PreCoast YCbCr 1080i 60Hz		7	0 - 63	
163	PostCoast YCbCr 1080i 60Hz		13	0 - 63	
164	PreCoast YCbCr 1080i 50Hz		7	0 - 63	
165	PostCoast YCbCr 1080i 50Hz		13	0 - 63	
166	PreCoast YCbCr 1035i		7	0 - 63	
167	PostCoast YCbCr 1035i		13	0 - 63	
180	PreCoast SCART 480i		7	0 - 63	
181	PostCoast SCART 480i		13	0 - 63	
182	PreCoast SCART 575i		7	0 - 63	

Electrical Adjustment

Group/Item	Item Name	Function	Initial	Range	Note
183	PostCoast SCART 575i		13	0 - 63	
Group 10	Sync Processor				
0	SYNCAMPHLCKTOLOW	Minimum sync amplitude threshold for HLCK 1 to 0 transition	0x1000	0 - 9999	
1	SYNCAMPHLCKTOHI	Minimum sync amplitude threshold for HLCK 0 to 1 transition	0x700	0 - 9999	
Group 20	Video Decoder				*R : Read Only Value
0	Component Y level	Component-Scaart Input Gain Adj. Group 01: <YCbCr>1080i-60, 1080i-50, 1035i Group 02: <YCbCr>720p-60, 720p-60 Group 03: <YCbCr>480p, 575p Group 04: <YCbCr>480i, 575i Group 05: <Scard>480i, 575i *Link with G-04	118 118 118 118 118	0 - 255	
1	Component C level	Component-Scart Input Gain Adj. Group 01: <YCbCr>1080i-60, 1080i-50, 1035i Group 02: <YCbCr>720p-60, 720p-60 Group 03: <YCbCr>480p, 575p Group 04: <YCbCr>480i, 575i Group 05: <Scard>480i, 575i *Link with G-04	110 110 127 134 134	0 - 255	
2	CVBS Y Level	CVBS/Y Input Gain Adj.	162 / 157	0 - 255	Composite / S-Video
3	CVBS C Level	C Input Gain Adj.	115 / 110	0 - 255	Composite / S-Video
4	Sub Hue	CVBS/S Input NTSC Tint Adj.	32	0 - 63	
5	HS Slice level	H Sync Slice Level	4	0 - 15	
6	HS Slice Offset	Offset to H Sync Slice Level Group 01: <YCbCr>480i, 575i Group 02: <YCbCr>480p, 575p Group 03: <YCbCr>720p Group 04: <YCbCr> 1080i Group 05: Others	5 5 4 3 3	0 - 15	
7	VS Slice Level	V Sync Slice Level	6	0 - 15	
8	VS Slice Offset	Offset to VS Slice Level	6	0 - 15	
9	Sampling Phase	A/D Clock Phase	0	0 - 63	
10	Pre Shoot Level	Sub Sharpness	8	0 - 15	
11	Over Shoot Level	Sub Sharpness	8	0 - 15	
12	Y Filter	Y Filter Band Setting Group 01: Composite, S-Video Group 02: 480i, 575i, 480o, 575p Group 03: 720p-60, 720p-50, 1035i, 1080i-60, 1080i-50	5 5 6	0 - 7	
13	C Filter	C Filter Band Setting Group 01: Composite, S-Video Group 02: 480i, 575i, 480o, 575p Group 03: 720p-60, 720p-50, 1035i, 1080i-60, 1080i-50	5 5 6	0 - 7	
14	NTSC/PAL Detect	NTSC/PAL Detection Threshold Setting 0: 64H/1V - PAL Strong 1: 96H/1V 2: 128H/1V 3: 160H/1V - PAL Weak	2	0 - 3	
Group 40	General				
0	IP Mode	Sets for IP Off	1	0 - 1	0: IP Block not used 1: IP OFF used with IP Block
1	3:2 PullDown Mode		1	1 - 3	bit0 : Global Motion bit1 : Video Motion
2	Detect Film Mode Enable		0	0 - 2	0 : 2:3pull down & 2:2pull down 1 : 2:3pull down 2 : 2:2pull down
3	Force IP Mode		2	0 - 2	0 : IP Process Disable 1 : Force Normal IP Mode 2 : Force Film Mode Effective only for PSF Signal.
Group 41	Deinterlacer setting Effective only for Progressive ON-L1 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 42	Deinterlacer setting Effective only for Progressive ON-L2 mode.				
0	Motion Adaptive Weight Value	<KDEINT>	0	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	2	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 43	Deinterlacer setting Effective only for Progressive ON/Film mode.				
0	Motion Adaptive Weight Value	<KDEINT>	30	0 - 255	
1	Angle Interpolation Level	0 : Conservative <===== 4 : Aggressive	4	0 - 4	
2	CUE Low Pass Filter Enable	<CUELPFEN>	0	0 - 1	
Group 45	Noise Reduction (Time) Effective only for N.R: Off				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	0	0 - 255	

Electrical Adjustment

Group/ Item	Item Name	Function	Initial	Range	Note
Group 47	Noise Reduction (Time) Effective only for N.R L1				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	50	0 - 255	
Group 49	Noise Reduction (Time) Effective only for N.R L2				
0	Noise Pixel Range	<NSRANGEY> / <NSRANGEUV>	1	0 - 2	
1	Noise Region 0	<NSREGIONY0> / <NSREGIONUV0>	12	0 - 1023	
2	Noise Region 1	<NSREGIONY1> / <NSREGIONUV1>	24	0 - 1023	
3	Noise Region 2	<NSREGIONY2> / <NSREGIONUV2>	40	0 - 1023	
4	Noise Gain Level	<NSFILTERY**> / <NSFILTERUV**>	100	0 - 255	
Group 50	2:2pull down setting				
0	22Film Mode Sensitivity	Film Detection Sensitivity <FILMSTVT2>	4	1 - 5	
1	22Film Mode Threshold Low	<FILMTHRD22A>	80	0 - 32767	
2	22Film Mode Threshold High	<FILMTHRD22B>	120	0 - 32767	
3	VOFTHR13	<VOFTHR13>	124	0 - 1023	* Read only
4	VOFTHR12	<VOFTHR12>	124	0 - 1023	* Read only
5	VOFTHR23	<VOFTHR23>	124	0 - 1023	* Read only
6	Video Motion Window Start X	<VOFSTARX>	10	0 - 2047	Range of detective for Film mode
7	Video Motion Window Stop X	<VOFSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Video Motion Window Start Y	<VOFSTARY>	10	0 - 1023	Range of detective for Film mode
9	Video Motion Window Stop Y	<VOFSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 51	2:3pull down setting				
0	Global Motion Sensitivity	Film Detection Sensitivity <FILMSTVT3>	4	1 - 5	
1	Video Motion Sensitivity	Film Detection Sensitivity <VOFSTVT>	4	1 - 5	
2	Video Motion Threshold Low	<VOFTHRDA>	120	0 - 32767	
3	Video Motion Threshold High	<VOFTHRDB>	180	0 - 32767	
4	Global Motion Threshold	<GMDTHRD>	124	0 - 1024	
5	23Film Mode Threshold	<FILMTHRD23>	100	0 - 32767	
6	Global Motion Window Start X	<GMDSTARX>	10	0 - 2047	Range of detective for Film mode
7	Global Motion Window Stop X	<GMDSTOPX>	10	0 - 2047	Range of detective for Film mode
8	Global Motion Window Start Y	<GMDSTARY>	10	0 - 1023	Range of detective for Film mode
9	Global Motion Window Stop Y	<GMDSTOPY>	10	0 - 1023	Range of detective for Film mode
Group 60	Image				
0	Center Contrast		578/578/534/534/492/492	0 - 1023	Video(S-Video) / Component / SCART / ANALOG / DIGITAL / HDCP Setting Value= (MENU Value - MENU Center Value) x Alpha / 10 + Center [Setting Value to PW] Contrast [Max] 1023 [Min] 0 Brightness [Max] 1023 [Min] 0 Color [Max] 1023 [Min] 0 Tint [Max] 180 [Min] 0 Sharpness [Max] 57 [Min] 0
1	Center Brightness		512/512/512/500/512/512	0 - 1023	
2	Center Color		512/534/512/512/512/512	0 - 1023	
3	Center Tint		90/90/90/90/90/90	0-180	
4	Center Sharpness		16/16/16/16/16/16	Fixed 16	
5	Alpha Contrast		40/40/40/40/40/40	0-1000	
6	Alpha Brightness		140/140/140/140/140/140	0-1000	
7	Alpha Color		70/70/70/70/70/70	0-1000	
8	Alpha Tint		10/10/10/10/10/10	0-1000	
9	Alpha Sharpness		10/10/10/10/10/10	0-1000	
Group 100	Panel Service				
0	G-SubGain		512/524/472/472/512/524/485/472	0-1023	PCStandard/PCDynamic/PCReal/PCBlack-Board/AVStandard/AVDynamic/AVCinema/AVBlackBoard
1	R-SubGain		512/524/472/535/512/524/485/535	0-1023	
2	B-SubGain		512/524/472/472/512/524/485/472	0-1023	
3	G-SubBright		0/0/0/16/0/0/0/16	0-1023	PCStandard/PCDynamic/PCReal/PCBlack-Board/AVStandard/AVDynamic/AVCinema/AVBlackBoard
4	R-SubBright		0/0/0/16/0/0/0/16	0-1023	
5	B-SubBright		0/0/0/16/0/0/0/16	0-1023	
6	G-GammaShift		512/512	0-1023	PC/AV Center=512 R] and [B] are linked with [G]
7	R-GammaShift		512/512	0-1023	
8	B-GammaShift		512/512	0-1023	
9	G-ReferH		1023/1023	0-1023	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
10	G-ReferL		336/336	0-1023	[R] and [B] are linked with [G] Scan Direction (Front/Rear)
11	R-ReferH		1023/1023	0-1023	Scan Direction (Front/Rear)
12	R-ReferL		336/336	0-1023	Scan Direction (Front/Rear)

Electrical Adjustment

Group/ Item	Item Name	Function	Initial		Range	Note
13	B-ReferH		1023/1023		0-1023	Scan Direction (Front/Rear)
14	B-ReferL		336/336		0-1023	Scan Direction (Front/Rear)
15	DXOutR		213		0-1023	
16	DXOutG		213		0-1023	
17	DXOutB		213		0-1023	
18	H_Change_Pos		3		0-256	
19	SH_Base		273		0-4095	
20	NRG_Pos		50		0-128	
21	NRG_Width		53		0-255	
22	OSD_Pos		2		0-3	
23	OSD_Ptn		0		0-7	
24	GammaCtrl		1		0-1	
25	REF_GatePos		4		0-1023	
26	REF_GateDur		192		0-1023	
27	R-BasePos		8		0-15	
28	G-BasePos		8		0-15	
29	B-BasePos		8		0-15	
30	RGB-Adjust		0		0-7	
31	RGB-AdjLv		0		0-1023	Operation STEP=256[0<->256<->512<->768<->1023]
32	LineR0		8		0-255	(MIN<->MAX Cyclic Operation)
33	LineR1		5		0-255	(MIN<->MAX Cyclic Operation)
34	LineR2		4		0-255	(MIN<->MAX Cyclic Operation)
35	LineR3		0		0-255	(MIN<->MAX Cyclic Operation)
36	LineR4		0		0-255	(MIN<->MAX Cyclic Operation)
37	LineG0		8		0-255	(MIN<->MAX Cyclic Operation)
38	LineG1		5		0-255	(MIN<->MAX Cyclic Operation)
39	LineG2		4		0-255	(MIN<->MAX Cyclic Operation)
40	LineG3		0		0-255	(MIN<->MAX Cyclic Operation)
41	LineG4		0		0-255	(MIN<->MAX Cyclic Operation)
42	LineB0		8		0-255	(MIN<->MAX Cyclic Operation)
43	LineB1		5		0-255	(MIN<->MAX Cyclic Operation)
44	LineB2		4		0-255	(MIN<->MAX Cyclic Operation)
45	LineB3		0		0-255	(MIN<->MAX Cyclic Operation)
46	LineB4		0		0-255	(MIN<->MAX Cyclic Operation)
47	GhostR-Pos		8		0-15	
48	GhostG-Pos		8		0-15	
49	GhostB-Pos		8		0-15	
50	GhostR-Cent		0		0-2047	
51	GhostR-Start		128		0-255	
52	GhostR-End		128		0-255	
53	GhostG-Cent		0		0-2047	
54	GhostG-Start		128		0-255	
55	GhostG-End		128		0-255	
56	GhostB-Cent		0		0-2047	
57	GhostB-Start		128		0-255	
58	GhostB-End		128		0-255	
59	BlockR1		0		0-2047	(MIN<->MAX Cyclic Operation)
60	BlockG1		0		0-2047	(MIN<->MAX Cyclic Operation)
61	BlockB1		0		0-2047	(MIN<->MAX Cyclic Operation)
62	BlockR2		0		0-2047	(MIN<->MAX Cyclic Operation)
63	BlockG2		0		0-2047	(MIN<->MAX Cyclic Operation)
64	BlockB2		0		0-2047	(MIN<->MAX Cyclic Operation)
65	ReverseR		0		0-2047	(MIN<->MAX Cyclic Operation)
66	ReverseG		0		0-2047	(MIN<->MAX Cyclic Operation)
67	ReverseB		0		0-2047	(MIN<->MAX Cyclic Operation)
68	BackCrossR-Cent		0		0-2047	
69	BackCrossR-Start		128		0-255	
70	BackCrossR-End		128		0-255	
71	BackCrossG-Cent		0		0-2047	
72	BackCrossG-Start		128		0-255	
73	BackCrossG-End		128		0-255	
74	BackCrossBR-Cent		0		0-2047	
75	BackCrossB-Start		128		0-255	
76	BackCrossB-End		128		0-255	
77	ColshdSelect		1		0-1	
			XT25	XT20		
78	R-Min		383	340	0-1023	
79	R-Mid2		485	466	0-1023	
80	R-Mid1		574	570	0-1023	

Electrical Adjustment

Group/ Item	Item Name	Function	Initial		Range	Note
81	R-Max		664	664	0-1023	
82	G-Min		383	340	0-1023	
83	G-Mid2		485	466	0-1023	
84	G-Mid1		574	570	0-1023	
85	G-Max		664	664	0-1023	
86	B-Min		383	340	0-1023	
87	B-Mid2		485	466	0-1023	
88	B-Mid1		574	570	0-1023	
89	B-Max		664	664	0-1023	
90	H-OutPos		108		0-2047	
91	OutAreaLv		0		0-1023	
92	FlickerAdj		0		0/2	not used
93	FRC_Bit		2		0-2	
94	FrontCTalkR-Cent		0		0-2047	
95	FrontCTalkR-Start		128		0-255	
96	FrontCTalkR-End		128		0-255	
97	FrontCTalkG-Cent		0		0-2047	
98	FrontCTalkG-Start		128		0-255	
99	FrontCTalkG-End		128		0-255	
100	FrontCTalkB-Cent		0		0-2047	
101	FrontCTalkB-Start		128		0-255	
102	FrontCTalkB-End		128		0-255	
103	R-DCOffset-NGain		0/0		0-255	Scan Direction (Front/Rear)
104	R-DCOffset-N1		20/20		0-511	
105	R-DCOffset-N2		0/0		0-511	
106	R-DCOffset-N3		0/0		0-511	
107	R-DCOffset-N4		0/0		0-511	
108	R-DCOffset-N5		0/0		0-511	
109	R-DCOffset-N6		0/0		0-511	
110	R-DCOffset-N7		0/0		0-511	
111	R-DCOffset-N8		0/0		0-511	
112	R-DCOffset-N9		0/0		0-511	
113	R-DCOffset-N10		0/0		0-511	
114	R-DCOffset-N11		0/0		0-511	
115	R-DCOffset-N12		500/500		0-511	
116	G-DCOffset-NGain		0/0		0-255	
117	G-DCOffset-N1		20/20		0-511	
118	G-DCOffset-N2		0/0		0-511	
119	G-DCOffset-N3		0/0		0-511	
120	G-DCOffset-N4		0/0		0-511	
121	G-DCOffset-N5		0/0		0-511	
122	G-DCOffset-N6		0/0		0-511	
123	G-DCOffset-N7		0/0		0-511	
124	G-DCOffset-N8		0/0		0-511	
125	G-DCOffset-N9		0/0		0-511	
126	G-DCOffset-N10		0/0		0-511	
127	G-DCOffset-N11		0/0		0-511	
128	G-DCOffset-N12		500/500		0-511	
129	B-DCOffset-NGain		0/0		0-255	
130	B-DCOffset-N1		20/20		0-511	
131	B-DCOffset-N2		0/0		0-511	
132	B-DCOffset-N3		0/0		0-511	
133	B-DCOffset-N4		0/0		0-511	
134	B-DCOffset-N5		0/0		0-511	
135	B-DCOffset-N6		0/0		0-511	
136	B-DCOffset-N7		0/0		0-511	
137	B-DCOffset-N8		0/0		0-511	
138	B-DCOffset-N9		0/0		0-511	
139	B-DCOffset-N10		0/0		0-511	
140	B-DCOffset-N11		0/0		0-511	
141	B-DCOffset-N12		500/500		0-511	
142	R-DCOffset-PGain		0/0		0-255	
143	R-DCOffset-P1		501/501		0-511	
144	R-DCOffset-P2		0/0		0-511	
145	R-DCOffset-P3		0/0		0-511	
146	R-DCOffset-P4		0/0		0-511	
147	R-DCOffset-P5		0/0		0-511	
148	R-DCOffset-P6		0/0		0-511	
149	R-DCOffset-P7		0/0		0-511	

Electrical Adjustment

Group/ Item	Item Name	Function	Initial	Range	Note
150	R-DCOffset-P8		0/0	0-511	
151	R-DCOffset-P9		0/0	0-511	
152	R-DCOffset-P10		0/0	0-511	
153	R-DCOffset-P11		0/0	0-511	
154	R-DCOffset-P12		12/12	0-511	
155	G-DCOffset-PGain		0/0	0-255	
156	G-DCOffset-P1		501/501	0-511	
157	G-DCOffset-P2		0/0	0-511	
158	G-DCOffset-P3		0/0	0-511	
159	G-DCOffset-P4		0/0	0-511	
160	G-DCOffset-P5		0/0	0-511	
161	G-DCOffset-P6		0/0	0-511	
162	G-DCOffset-P7		0/0	0-511	
163	G-DCOffset-P8		0/0	0-511	
164	G-DCOffset-P9		0/0	0-511	
165	G-DCOffset-P10		0/0	0-511	
166	G-DCOffset-P11		0/0	0-511	
167	G-DCOffset-P12		12/12	0-511	
168	B-DCOffset-PGain		0/0	0-255	
169	B-DCOffset-P1		501/501	0-511	
170	B-DCOffset-P2		0/0	0-511	
171	B-DCOffset-P3		0/0	0-511	
172	B-DCOffset-P4		0/0	0-511	
173	B-DCOffset-P5		0/0	0-511	
174	B-DCOffset-P6		0/0	0-511	
175	B-DCOffset-P7		0/0	0-511	
176	B-DCOffset-P8		0/0	0-511	
177	B-DCOffset-P9		0/0	0-511	
178	B-DCOffset-P10		0/0	0-511	
179	B-DCOffset-P11		0/0	0-511	
180	B-DCOffset-P12		12/12	0-511	Scan Direction (Front/Rear)
181	ENBX-R		0	0-127	
182	ENBX-G		0	0-127	
183	ENBX-B		0	0-127	
184	DXOutPos		0	0-1	
Group101 : Panel Service(6150/1060)					
0	R-LCCOM		330	0-511	
1	G-LCCOM		330	0-511	
2	B-LCCOM		330	0-511	
3	R-LCCOM-Gain		191	0-255	
4	G-LCCOM-Gain		191	0-255	
5	B-LCCOM-Gain		191	0-255	
6	R-LCCOM-Bright		0	0-255	
7	G-LCCOM-Bright		0	0-255	
8	B-LCCOM-Bright		0	0-255	
9	R-LCCOM-Cent		18	0-63	
10	G-LCCOM-Cent		18	0-63	
11	B-LCCOM-Cent		18	0-63	
12	R-ENBX-PW		11	0-127	
13	G-ENBX-PW		11	0-127	
14	B-ENBX-PW		11	0-127	
15	R-DXIN		13	0-255	Link with No.18
16	G-DXIN		13	0-255	Link with No.19
17	B-DXIN		13	0-255	Link with No.20
18	R-CLXIN		13	0-255	Link with No.15
19	G-CLXIN		13	0-255	Link with No.16
20	B-CLXIN		13	0-255	Link with No.17
21	R-ENBX1IN		27	0-255	
22	G-ENBX1IN		27	0-255	
23	B-ENBX1IN		27	0-255	
Group 200 Option					
0	Logo Prohibition (Forced No Brand)	Logo Prohibition (0: Menu, 1: Forced, 2: China, 3-9: not used)	0	0 - 2	Effective after AC On

Electrical Adjustment

Group/Item	Item Name	Function	Initial	Range	Note
1	RS232C Baudrate	Baud Rate	0	0 - 2	0: 19200bps, 1: 9600bps, 2: 115200bps
2	PJLink Enable	PJLink	0	0 - 1	0:Disable 1:Enable
3	Shipping Setting		0	0 - 20	Default set when the value is set to 10.
4	CABLE SW	Long Cable	0	0 - 10	n/a
5	PW Debug Command Enable		0	0 - 1	0:Disable (Sanyo Serial Command Eanble) 1: Enable (PW Debug Mode)
6	Device Refresh Disable		0	0 - 1	0:Enable, 1:Disable No last memory
7	Device Access Disable		0	0 - 1	0:Enable (Normal), 1:Disable No last memory
8	PJ-Net HangUp Check		0	0 - 1	0: Enable, 1: Disable
20	Projector Time Reset		0	0 - 20	Projector Time is cleared when the value is set to 10.
21	Lamp Warning Time (NORMAL)	Lamp Life at Normal Mode (Warning Time at Normal)		500 - 8000	
22	Lamp Warning Time (ECO)	Lamp Life at Eco Mode (Warning Time at Eco)		500 - 8000	
23	Lamp Warning Time (HIGH)	Lamp Life at Eco Mode (Warning Time at High)		500 - 8000	
30	Lamp life test enable				0:Disable 1:Enable, for safety test only
31	Lmap On time(for life test)	For test purpose			
32	Lamp Off time(for life test)	For test purpose			
33	Lamp total time(for life test)	For test purpose			
50	Lamp Replacement Display	Lamp Warning Display On/Off	1	0 - 1	0: Off, 1: On
51	Filter Warning Display	Filter Warning Display On/Off	1	0 - 1	0: Off, 1: On
52	Lamp counter Reset Times	Reset Times of Lamp Counter	0	0 - 255	* Read only
53	Filter Counter Reset times	Reset Times of Filter Counter	0	0 - 255	* Read only
54	Factory Default Execute Times	Reset Times of Factory Default Set	0	0 - 255	* Read only
55	Motor Stop	Motor Stop 0: Enable, 1: Disable	0	0 - 1	
56	Mouse Posiyion (X)	Offset Value of X axis	0	0 - 1024	
57	Mouse Position (Y)	Offset Value of Y axis	0	0 - 1024	
Group 201 Option (signal)					
0	FrameLock Option		1	0 - 1	0: FrameLockOFF at PC signal 1: FrameLockON at PC signal and 47Hz (Vfreq) ~ Panel frequency of input signal
2	Field Sense Invert Enable		0	0 - 1	Reverse Processing of FLDINV Setting Value 0: Disable - Used FLDINV Setting Value 1: Enable - Used Reversed FLDINV Setting Value
3					
4	Sub Image Enable		1	0 - 1	0:Disable (Service Adjustment Dsiable, Used all the Center Values 1:Enable (Service Adjustment Enable)
6	Zoom Accelerator Enable		0	0 - 1	0:Zoom Accelerator OFF, 1:Zoom Accelerator ON No last memory
7	DZoom Reset by Keystone		0	0 - 1	0:Enable (Normal), 1:Disable (Dzoo is not cancelled even if Keystone is cancelled) No last memory
8	Stability Count	Count Value of V-missing	5	0 - 255	
9	Sensivity for Signal Lost (HSYNC)	Only used this value for No Signal Judgement(Hz)	350	0 - 65535	
10	Sensivity for Signal Lost (VSYNC)	Only used this value for No Signal Judgement(Line)	3	0 - 255	
11	Keystone Filter center value	Center value of Keystone Filter	16	0 - 30	
Group 210 LampContorl					
0	DIMMER_CTRL_LEVEL1	Luminance Level 1 Data for Dimmer: Dim Level 1 at the less than the Value		0 - 255	Philips 200W
1	DIMMER_CTRL_LEVEL2	Luminance Level 2 Data for Dimmer: Dim Level 2 at the less than the Value		0 - 255	
2	DIMMER_CTRL_LEVEL3	Luminance Level 3 Data for Dimmer: Dim Level 3 at the less than the Value		0 - 255	
3	DIMMER_CTRL_LEVEL4	Luminance Level 4 Data for Dimmer: Dim Level 4 at the less than the Value		0 - 255	
4	DIMMER_CTRL_LEVEL5	Luminance Level 5 Data for Dimmer: Dim Level 5 at the less than the Value		0 - 255	
5	DIMMER_CTRL_LEVEL6	Luminance Level 6 Data for Dimmer: Dim Level 6 at the less than the Value		0 - 255	
6	DIMMER_CTRL_LEVEL7	Luminance Level 7 Data for Dimmer: Dim Level 7 at the less than the Value		0 - 255	
7	DIMMER_CTRL_LEVEL8	Luminance Level 8 Data for Dimmer: Dim Level 8 at the less than the Value		0 - 255	
8	DIMMER_CTRL_LEVEL9	Luminance Level 9 Data for Dimmer: Dim Level 9 at the less than the Value		0 - 255	
9	DIMMER_CTRL_LEVEL10	Luminance Level 10 Data for Dimmer: Dim Level 10 at the less than the Value		0 - 255	

Electrical Adjustment

Group/Item	Item Name	Function	Initial	Range	Note
10	DIMMER_CTRL_LEVEL11	Luminance Level 11 Data for Dimmer: Dim Level 11 at the less than the Value		0 - 255	
11	DIMMER_CTRL_LEVEL12	Luminance Level 12 Data for Dimmer: Dim Level 12 at the less than the Value		0 - 255	
12	DIMMER_CTRL_LEVEL13	Luminance Level 13 Data for Dimmer: Dim Level 13 at the less than the Value		0 - 255	
13	DIMMER_CTRL_LEVEL14	Luminance Level 14 Data for Dimmer: Dim Level 14 at the less than the Value		0 - 255	
14	DIMMER_CTRL_LEVEL15	Luminance Level 15 Data for Dimmer: Dim Level 15 at the less than the Value		0 - 255	
15	DIMMER_AVERAGE_POINT	Luminance Data Avarage Point for Mimmer	4	0 - 16	
16	DIMMER_AVERAGE_DATA	Luminance Data Avarage Value for Dimmer	-	-	* Read only
17	DIMMER_LEVEL_AUTO	Current Dimmer Level	-	-	* Read only
18	DIMMER_LEVEL_NORMAL	Normal Dimmer Level		0 - 14	
19	DIMMER_LEVEL_ECO	Eco Dimmer Level		0 - 14	
20	Lamp check enable				0: Lamp Failure Detection OFF (White 50% Back), 1 : ON (Blue 100% Back)
21	VOLTAGE_LEVEL	Lamp Voltage			Unit: 8bit(Raw Data) * Read only
22	DIMMER_LEVEL_HIGH	Dimmer Level HIGH		0 - 15	
Group 220 Projector Error History * Refer to Error History Log					
0	Warning_Log_1		0	0 ~ 32767	Latest error log
~	:		:	:	:
49	Warning_Log_50		0	0 ~ 32767	50th Error log
50	Warning_Log Reset		0	0 ~ 10	Projector Error Histry Log is created when the value is set to "10".
Group 250 Fan Voltage Adjustment					
0	Fan1 Min Adjust (DAC)	Fan DAC Output Adjustment	38	0-255	
1	Fan1 Max Adjust (DAC)	Adjust DAC-Fan Voltage toleance	242	0-255	
2	Fan2 Min Adjust (DAC)	* Lamp Mode: Eco	38	0-255	
3	Fan2 Max Adjust (DAC)	(DACmax - DACmin) / (Volmax - Volmin) * (Volnow - Volmin) + DACmin	241	0-255	
4	Fan3 Min Adjust (DAC)		38	0-255	
5	Fan3 Max Adjust (DAC)		241	0-255	
6	Fan4 Min Adjust (DAC)		38	0-255	
7	Fan4 Max Adjust (DAC)		241	0-255	
Group 251 Fan Clogging Detection Setting					
0	Filter Warning Calibration	Clogging Detect Auto Offset Adj. * OK Displayed after finished	0	0~1	
1	Fan4 Filter Warning Offset	Clogging Detect Offset Adj. (Fan Voltage)	0	-128~127	
2	Fan5 Filter Warning Offset	* The value is set after calibration	0	-128~127	
3	Filter Warning Times	Time (minute) of Filter Clogging Detection	3	0~10	
4	Not used				
5	Not used				
6	Not used				
7	Not used				
8	Not used				
9	Fan-Add Filter Level 1	Additional Fan Freq. at Clogging Level1 (rpm)		0000-9990	
10	Fan-Add Filter Level 2	Additional Fan Freq. at Clogging Level2 (rpm)		0000-9990	
11	Filter Warning Calibration Range	Tolerance at Auto Adjustment (1:±5rpm 2:±10rpm 10:±50rpm)	1	0~10	
12	Filter Warning Calibration Time	Time to OK at Auto calibration (sec)	3	1~10	
13	Filter Warning Calibration Error Log	Log of Auto calibration 0: No Error 11-15: Fan Min Adj Error 21~25: Fan Max Adj Error 30: Out of Range	-	0-255	
Group 252 Fan Option					
0	Fan Max Switch	0:Normal 1:Max Fixed (13.5V) * HighLand Set is disable when setting Fan Max	0	0-5	
1	Safety Switch	Safety Exam FAN Control Switch (0:Normal, 1:High Min, 2:High Max, 3:Normal Min, 4:Normal Max, 5:Eco Min,6:Eco Max)	0	0~6	
2	Fan Manual Switch	Fan Manual SW (0:Auto 1:Mamual Adj)		0-3	
3	Fan1 Manual Voltage	Fan Voltage Manual Adj Mode (0.1V)		0-255	

Electrical Adjustment

Group/Item	Item Name	Function	Initial				Range	Note																						
4	Fan2 Manual Voltage	* Effective only Fan Manual Switch = 1					0-255																							
5	Fan3 Manual Voltage						0-255																							
6	Fan4 Manual Voltage						0-255																							
Group 253	Fan Tem Error Setting (Memorized)		Normal	Ceiling	L1	L2																								
0	Temp A Warning (High)	Temp. A to judge the Temp Error at HighLand (Room)	45	45	45	45	30-100	<div></div> <div><table><tr><td>Slant</td><td>Off</td><td>L1</td><td>L2</td></tr><tr><td>Ceiling</td><td>Off</td><td>Normal</td><td>Up</td></tr><tr><td>Off</td><td>Normal</td><td>Up</td><td>Down</td></tr><tr><td>On</td><td>Ceiling</td><td>Up</td><td>Down</td></tr></table><p>Definition of Slant</p><table><tr><td>Off</td><td>-20° ~ 20°</td></tr><tr><td>L1</td><td>20° ~ 160°</td></tr><tr><td>L2</td><td>-20° ~ -160°</td></tr></table></div>	Slant	Off	L1	L2	Ceiling	Off	Normal	Up	Off	Normal	Up	Down	On	Ceiling	Up	Down	Off	-20° ~ 20°	L1	20° ~ 160°	L2	-20° ~ -160°
Slant	Off	L1	L2																											
Ceiling	Off	Normal	Up																											
Off	Normal	Up	Down																											
On	Ceiling	Up	Down																											
Off	-20° ~ 20°																													
L1	20° ~ 160°																													
L2	-20° ~ -160°																													
1	Temp B Warning (High)	Temp. A to judge the Temp Error at HighLand (Lamp)	66	66	66	66	30-100																							
2	Temp C Warning (High)	Temp. A to judge the Temp Error at HighLand (Panel)	49	49	49	49	30-100																							
3	Temp B-A Warning (High)	Temp. B-A to judge the Temp Error at High-Land (Clogging Det.)	100	100	100	100	0-100																							
4	Temp C-A Warning (High)	Temp. C-A to judge the Temp Error at High-Land (Clogging Det.)	100	100	100	100	0-100																							
5	Temp A Warning (Normal)	Temp. A to judge the Temp Error at Normal (Room)	45	45	45	45	30-100																							
6	Temp B Warning (Normal)	Temp. A to judge the Temp Error at Normal (Lamp)	69	69	69	69	30-100																							
7	Temp C Warning (Normal)	Temp. A to judge the Temp Error at Normal (Panel)	49	49	49	49	30-100																							
8	Temp B-A Warning (Normal)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100																							
9	Temp C-A Warning (Normal)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100																							
10	Temp A Warning (Eco)	Temp. A to judge the Temp Error at Eco (Room)	45	45	45	45	30-100																							
11	Temp B Warning (Eco)	Temp. A to judge the Temp Error at Eco (Lamp)	72	72	72	72	30-100																							
12	Temp C Warning (Eco)	Temp. A to judge the Temp Error at Eco (Panel)	49	49	49	49	30-100																							
13	Temp B-A Warning (Eco)	Temp. B-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100																							
14	Temp C-A Warning (Eco)	Temp. C-A to judge the Temp Error at Normal (Clogging Det.)	100	100	100	100	0-100																							
15	Temp A Warning Offset (Temp)	Offset of Temp Error (Temp.)	20				0-100																							
16	Temp B Warning Offset (Temp)	Error Setting Value is increased XC at the below condition	20				0-100																							
17	Temp C Warning Offset (Temp)	* Standby	20				0-100																							
18	Temp B-A Warning Offset (Temp)	* Right to turn on the lamp	20				0-100																							
19	Temp C-A Warning Offset (Temp)	*Right to change the Lamp mode	20				0-100																							
20	Temp A Warning Offset (Time)	Offset of Temp Error (Minutes)	5				0-5																							
21	Temp B Warning Offset (Time)	Error Setting Value is increased X minute at the below condition	5				0-5																							
22	Temp C Warning Offset (Time)	* Standby	5				0-5																							
23	Temp B-A Warning Offset (Time)	* Right to turn on the lamp	5				0-5																							
24	Temp C-A Warning Offset (Time)	*Right to change the Lamp mode	5				0-5																							
Group 254	Fan Control Range Setting (Temp./REV)		Normal	Ceiling	L1	L2																								
0	High Fan Control Min Temp	Temp Sensor Control Start/End Tem.p at HighLand	25	25	25	25	20-100	<div></div> <div><table><tr><td>Slant</td><td>Off</td><td>L1</td><td>L2</td></tr><tr><td>Ceiling</td><td>Off</td><td>Normal</td><td>Up</td></tr><tr><td>Off</td><td>Normal</td><td>Up</td><td>Down</td></tr><tr><td>On</td><td>Ceiling</td><td>Up</td><td>Down</td></tr></table><p>Definition of Slant</p><table><tr><td>Off</td><td>-20° ~ 20°</td></tr><tr><td>L1</td><td>20° ~ 160°</td></tr><tr><td>L2</td><td>-20° ~ -160°</td></tr></table></div>	Slant	Off	L1	L2	Ceiling	Off	Normal	Up	Off	Normal	Up	Down	On	Ceiling	Up	Down	Off	-20° ~ 20°	L1	20° ~ 160°	L2	-20° ~ -160°
Slant	Off	L1	L2																											
Ceiling	Off	Normal	Up																											
Off	Normal	Up	Down																											
On	Ceiling	Up	Down																											
Off	-20° ~ 20°																													
L1	20° ~ 160°																													
L2	-20° ~ -160°																													
1	High Fan Control Max Temp		34	34	34	34	20-100																							
2	High Fan1 Min		1960	1960	1960	1960	0000-9990																							
3	High Fan1 Max		2420	2420	2420	2420	0000-9990																							
4	High Fan2 Min		1800	1800	1935	1935	0000-9990																							
5	High Fan2 Max	Fan Operation REV(Min/Max) setting at HighLand (rpm)	2550	2550	2550	2550	0000-9990																							
6	High Fan3 Min		3620	3620	4600	3620	0000-9990																							
7	High Fan3 Max		4600	4600	5350	4600	0000-9990																							
8	High Fan4 Min		2690	2690	2690	2690	0000-9990																							
9	High Fan4 Max		4855	4855	4855	4855	0000-9990																							
10	Normal Fan Control Min Temp	Temp Sensor Control Start/End Tem.p at Normal	25	252	25	25	20-100																							
11	Normal Fan Control Max Temp		34	34	34	34	20-100																							
12	Normal Fan1 Min		1760	1760	1760	1760	0000-9990																							
13	Normal Fan1 Max		2200	2200	2200	2200	0000-9990																							
14	Normal Fan2 Min		1625	1625	1760	1760	0000-9990																							
15	Normal Fan2 Max	Fan Operation REV(Min/Max) setting at Normal (rpm)	2245	2245	2245	2245	0000-9990																							
16	Normal Fan3 Min		3190	3190	4110	3190	0000-9990																							
17	Normal Fan3 Max		4110	4110	4975	4110	0000-9990																							
18	Normal Fan4 Min		2360	2360	2360	2360	0000-9990																							
19	Normal Fan4 Max		4705	4705	4705	4705	0000-9990																							
20	Eco Fan Control Min Temp	Temp Sensor Control Start/End Tem.p at Eco	25	25	25	25	20-100																							
21	Eco Fan Control Max Temp		34	34	34	34	20-100																							
22	Eco Fan1 Min		1560	1560	1560	1560	0000-9990																							
23	Eco Fan1 Max		1975	1975	1975	1975	0000-9990																							
24	Eco Fan2 Min		1450	1450	1580	1580	0000-9990																							
25	Eco Fan2 Max	Fan Operation REV(Min/Max) setting at Eco (rpm)	1935	1935	1935	1935	0000-9990																							
26	Eco Fan3 Min		2760	2760	3620	2760	0000-9990																							
27	Eco Fan3 Max		3860	3860	4600	3620	0000-9990																							
28	Eco Fan4 Min		2025	2025	2025	2025	0000-9990																							
29	Eco Fan4 Max		4550	4550	4550	4550	0000-9990																							

Electrical Adjustment

Group/ Item	Item Name	Function	Initial	Range	Note
Group 255	Fan Start/Cooling Setting				
0	Fan1 Initial Volt	Fan Start Voltage (0.1V)	55	0-255	
1	Fan2 Initial Volt		65	0-255	
2	Fan3 Initial Volt		35	0-255	
3	Fan4 Initial Volt		50	0-255	
8	Cooling Time	Cooling Time (x30sec) 1:30sec 3:90sec 15:450sec	3	1-15	
10	Temp Error Cooling Time	Cooling Time at Temp Error (x20sec) 1:30sec 3:90sec 15:450sec	3	1-15	
11	OnStart Cooling Start Threshold		38	0-100	
12	After shutdown cooling	Cooling After Shut Down (0:No 1:Yes)	1	0-1	
Group 256	Fan Lamp Voltage Down Setting				
0	Lamp Voltage	Current Lamp Voltage (0.1V)(Read only)	---	0-255	
1	Lamp Vol Threshold	Threshold to judge Lamp Voltage Down (Vx 10)	60	30-90	
2	Fan1 Speed Gain	Additional Fan Speed of Min at Lamp Voltage Down (rpm)	300	0-1500	
3	Fan2 Speed Gain		300	0-1500	
4	Fan3 Speed Gain		300	0-1500	
5	Fan4 Speed Gain		300	0-1500	
Group 257	Fan Dimmer Setting				
0	Dimmer Average Check Period	Dimmer Avarage measurement Time (0:10sec, 1:30sec, 2:6sec, 90sec...10:300sec)	1	0-10	
1	Dimmer Average	Dimmer Avarage Value (Read only)	-		
2	Last Voltage Difference		-		
3	Voltate Difference Goal				
Group 260	Auto Calibration (Commn) * Auto Calibration				
0	Execute Calibration		0	0 - 1	Executes Auto-Calibration when changing the Value (PC White 100%)
1	Loop Count	Maximum Execution Times (OFFSET->GAIN)	3	1 - 30	
2	Auto Status	Result of Auto-Calibration (Last Memory)	0	0 / 1 / 9	0: OK, 1: Adjusting, 2: Error * ReadOnly
3	AutoWait	Wait Value for each setting	1	1 - 20	
4	CHECK -Tolerance	Tolerance of OFFSET	1	1 - 255	
Group 261	Auto Calibration (RGB)				
0	OFFSET AREA H START	Black Level Acquiring Area H-Start Position	975	0 - 1000	
1	OFFSET AREA V START	Black Level Acquiring Area V-Start Position	500	0 - 1000	
2	GAIN AREA H START	White Level Acquiring Area H-Start Position	25	0 - 1000	
3	GAIN AREA V START	White Level Acquiring Area V-Start Position	500	0 - 1000	
4	Image AREA H WIDTH	Black/White Level Acquiring Area	13	0 - 4095	
5	Image AREA V HIGHT	Black/White Level Acquiring Area Height	9	0 - 4095	
6	OFFSET target	Target Value of Black Level Adj.	3	0 - 127	
7	OFFSET torelance	Tolerance of Black Level Adj.	1	1 - 127	
8	GAIN target	Target Value of White Level Adj.	238	0 - 255	
9	GAIN torelance	Tolerance of White Level Adj.	1	1 - 255	
Group 263	Auto Calibration (CVBS/SVIDEO) CXA3815				
0	Y Image Area Start X	Y Acquiring Area H-Start Position	50	0 - 1000	
1	Y Image Area Start Y	Y Acquiring Area V-Start Position	200	0 - 1000	
6	Image Area H Width	Image Level Acquiring Area	13	0 - 4095	
7	Image Area V Hight	Image Level Acquiring Area Height	9	0 - 4095	
8	Y Target Level	Target Value of Y Level Adj.	219	0 - 255	
11	Gain Tolerance	Tolerance of Level Adj.	1	0 - 255	
Group 265	Auto Calibration (YCbCr) CXA3815				
6	Y - GAIN AREA H START	Y	100	0 - 1000	
7	Y - GAIN AREA V START		500	0 - 1000	
12	Image AREA H WIDTH	YCBCR Level Acquiring Area	13	0 - 4095	
13	Image AREA V HIGHT	YCBCR Level Acquiring Area Height	9	0 - 4095	
17	Y - GAIN TARGET		217	0 - 255	
21	GAIN torelance	Tolerance of GAIN Adj.	1	1 - 255	
Group 270	CUSTOM(Aspect)				
0	Horizontal Scaler	H-Scaler Edit	100	0 - 200	

Electrical Adjustment

Group/Item	Item Name	Function	Initial	Range	Note
1	Vertical Scaler	V-Scaler Edit	100	0 - 200	
2	Connect	Link/Unlink Edit Selection	0	0 - 1	0: Unlinked Edit, 1: Linked Edit
3	Position Horizontal	H-Position Compensation	100	0 - 200	
4	Position Vertical	V-Position Compensation	100	0 - 200	
5	Aspect Enable	Aspect Adjustment Enable	0	0 - 1	0: Enable, 1: Disable
Group 280 AutoPC Adjstut					
0	AutoPCAdjustEnable	Auto-PC Adj Operation Enable if Un-supported Signal Input	0	0 - 1	0: Enable, 1: Disable
1	Frequency Step	Frequency Steps of TotalDot	1	0-3	
2	Frequency Threshold	Total Dot Frequency Threshold	5	0 - 10	0 [] <--- ----> 10[Not matched]
3	Fine Phase	Do Phase Adj after Total Dot Adj.	1	0 - 1	0: Executes Fine Phase, 1: Not Execute
4	BLKDET	Black Level Detection Area	1	0 - 3	
5	PHASEMSK	Phase Detection Filter	0	0 - 3	0: Effective All Bit, 1: Disable Lower 1 bit 2: Disable Lower 2 bit, 3: Disable Lower 3 bit
Group 290 PanelType * Panel Type Check					
0	GammaL/R-View	Current Setting Check	0	0-20	0: Gamma for L-Turn 20: Gamma for R-Turn * Read only
1	GammaL/R-Change	Setting of Gamma	10	0-20	Sets L-Turn Gamma if the Value is set to 0. Sets R-Turn Gamma if the Value is set to 20.
Group 500 Composite (NTSC) Composite / S-Video					
0					
1	Disp Dots		668	0 ~ 4095	
2	H Back Porch		32	0 ~ 4095	
3	V Back Porch		22	0 ~ 4095	
4	Disp Line		450	0 ~ 4095	
Group 501 Composite (PAL) Composite / S-Video					
0					
1	Disp Dots		664	0 ~ 4095	
2	H Back Porch		32	0 ~ 4095	
3	V Back Porch		20	0 ~ 4095	
4	Disp Line		534	0 ~ 4095	
Group 502 Composite (SECAM) Composite / S-Video					
0					
1	Disp Dots		652	0 ~ 4095	
2	H Back Porch		28	0 ~ 4095	
3	V Back Porch		10	0 ~ 4095	
4	Disp Line		550	0 ~ 4095	
Group 510 SCART(480i)					
0					
1	Disp Dots		666	0 ~ 4095	
2	H Back Porch		142	0 ~ 4095	
3	V Back Porch		52	0 ~ 4095	
4	Disp Line		448	0 ~ 4095	
Group 511 SCART (575i)					
0					
1	Disp Dots		648	0 ~ 4095	
2	H Back Porch		170	0 ~ 4095	
3	V Back Porch		68	0 ~ 4095	
4	Disp Line		526	0 ~ 4095	
Group 520 YCbCr (480i)					
0	Total Dots		890	0 ~ 4095	
1	Disp Dots		696	0 ~ 4095	
2	H Back Porch		150	0 ~ 4095	
3	V Back Porch		448	0 ~ 4095	
4	Disp Line		458	0 ~ 4095	
Group 521 YCbCr (575i)					
0	Total Dots		920	0 ~ 4095	
1	Disp Dots		704	0 ~ 4095	
2	H Back Porch		170	0 ~ 4095	
3	V Back Porch		62	0 ~ 4095	
4	Disp Line		542	0 ~ 4095	
Group 522 YCbCr (480P)					
0	Total Dots		858	0 ~ 4095	* Read only
1	Disp Dots		684	0 ~ 4095	
2	H Back Porch		148	0 ~ 4095	
3	V Back Porch		60	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	

Electrical Adjustment

Group/ Item	Item Name	Function	Initial	Range	Note
Group 523	YCbCr (575P)				
0	Total Dots		862	0 ~ 4095	* Read only
1	Disp Dots		680	0 ~ 4095	
2	H Back Porch		148	0 ~ 4095	
3	V Back Porch		60	0 ~ 4095	
4	Disp Line		538	0 ~ 4095	
Group 524	YCbCr (720P - 60)				
0	Total Dots		1650	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		338	0 ~ 4095	
3	V Back Porch		36	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 525	YCbCr (720P - 50)				
0	Total Dots		1980	0 ~ 4095	* Read only
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		338	0 ~ 4095	
3	V Back Porch		36	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
Group 526	YCbCr (1080i - 60)				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
Group 527	YCbCr (1080i - 50)				
0	Total Dots		2640	0 ~ 4095	* Read only
1	Disp Dots		1870	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		88	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 528	YCbCr (1035i)				
0	Total Dots		2200	0 ~ 4095	* Read only
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		88	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 540	RGB Video (480i)				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		752	0 ~ 4095	
2	H Back Porch		166	0 ~ 4095	
3	V Back Porch		48	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		***	0 ~ 255	
6	Clamp Width		***	0 ~ 255	
Group 541	RGB Video (575i)				
0	Total Dots		966	0 ~ 4095	
1	Disp Dots		736	0 ~ 4095	
2	H Back Porch		182	0 ~ 4095	
3	V Back Porch		64	0 ~ 4095	
4	Disp Line		536	0 ~ 4095	
5	Clamp		***	0 ~ 255	
6	Clamp Width		***	0 ~ 255	
Group 542	RGB Video (480P)				
0	Total Dots		960	0 ~ 4095	
1	Disp Dots		766	0 ~ 4095	
2	H Back Porch		156	0 ~ 4095	
3	V Back Porch		46	0 ~ 4095	
4	Disp Line		460	0 ~ 4095	
5	Clamp		***	0 ~ 255	
6	Clamp Width		***	0 ~ 255	
Group 543	RGB Video (575P)				
0	Total Dots		986	0 ~ 4095	
1	Disp Dots		774	0 ~ 4095	
2	H Back Porch		174	0 ~ 4095	
3	V Back Porch		62	0 ~ 4095	
4	Disp Line		540	0 ~ 4095	
5	Clamp		***	0 ~ 255	
6	Clamp Width		***	0 ~ 255	

Electrical Adjustment

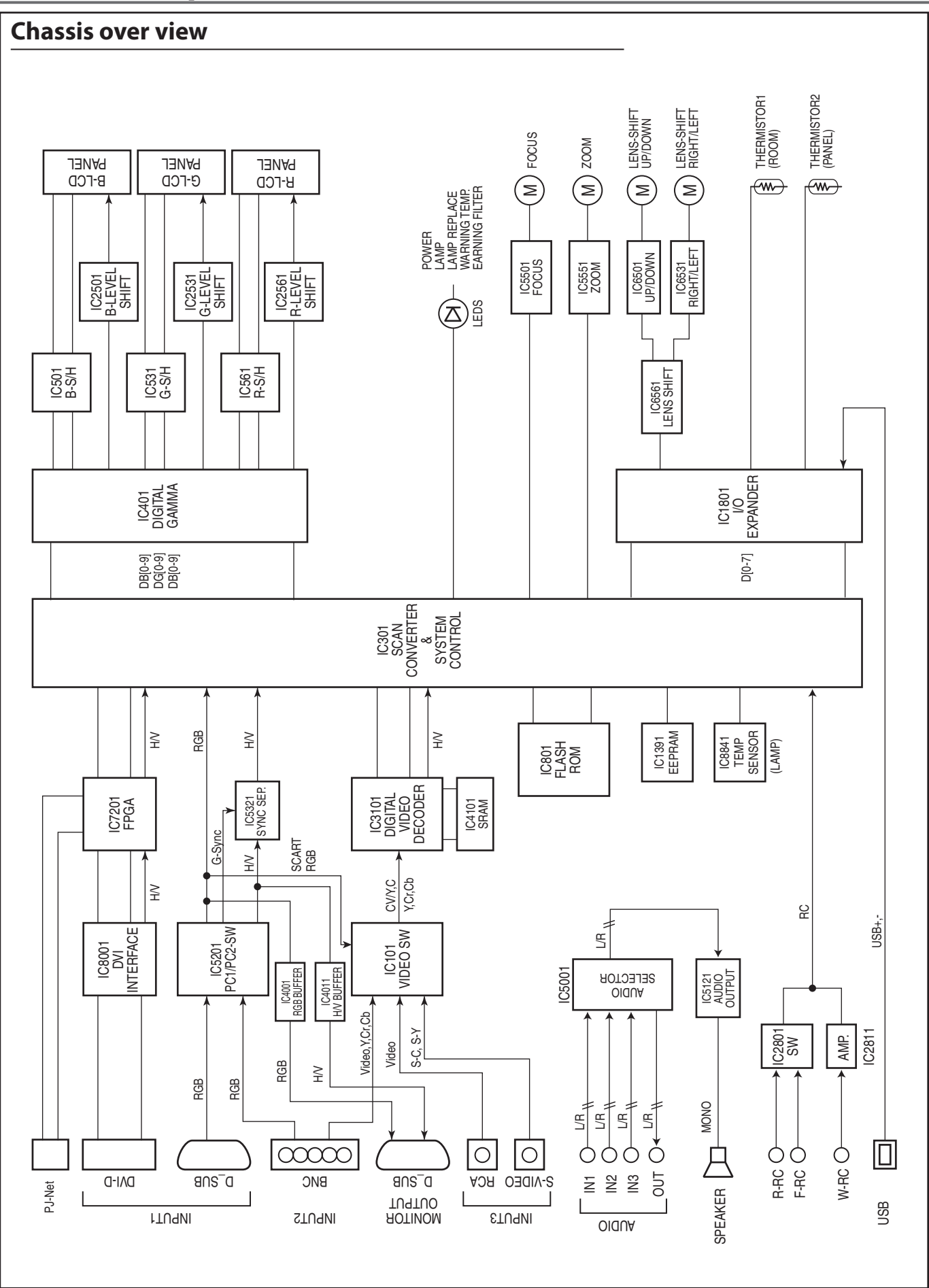
Group/ Item	Item Name	Function	Initial	Range	Note
Group 544	RGB Video (720P - 60)				
0	Total Dots		1650	0 ~ 4095	
1	Disp Dots		1248	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		720	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 545	RGB Video (720P - 50)				
0	Total Dots		1980	0 ~ 4095	
1	Disp Dots		1246	0 ~ 4095	
2	H Back Porch		310	0 ~ 4095	
3	V Back Porch		34	0 ~ 4095	
4	Disp Line		700	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 546	RGB Video (1080i - 60)				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1872	0 ~ 4095	
2	H Back Porch		254	0 ~ 4095	
3	V Back Porch		56	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 547	RGB Video (1080i - 50)				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1868	0 ~ 4095	
2	H Back Porch		258	0 ~ 4095	
3	V Back Porch		54	0 ~ 4095	
4	Disp Line		1052	0 ~ 4095	
5	Clamp		1	0 ~ 255	
6	Clamp Width		31	0 ~ 255	
Group 548	RGB Video (1035i)				
0	Total Dots		2200	0 ~ 4095	
1	Disp Dots		1920	0 ~ 4095	
2	1868H Back Porch		258	0 ~ 4095	
3	V Back Porch		92	0 ~ 4095	
4	Disp Line		1012	0 ~ 4095	
Group 549	RGB Video (1080P-60)				
0			2200	0 ~ 3000	* Read only
1	Disp Dots		1872	0 ~ 3000	
2	H Back Porch		254	0 ~ 3000	
3	V Back Porch		56	0 ~ 3000	
4	Disp Line		1052	0 ~ 1500	
8	VSBEQ		2	0 ~ 15	
Group 560	HDCP (480P)				
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEQ		2	0 ~ 15	
Group 561	HDCP (575P)				
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEQ		2	0 ~ 15	
Group 562	HDCP (720P - 60)				
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEQ		2	0 ~ 15	
Group 563	HDCP (720P - 50)				
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEQ		2	0 ~ 15	
Group 564	HDCP (1080i - 60)				
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEQ		2	0 ~ 15	

Electrical Adjustment

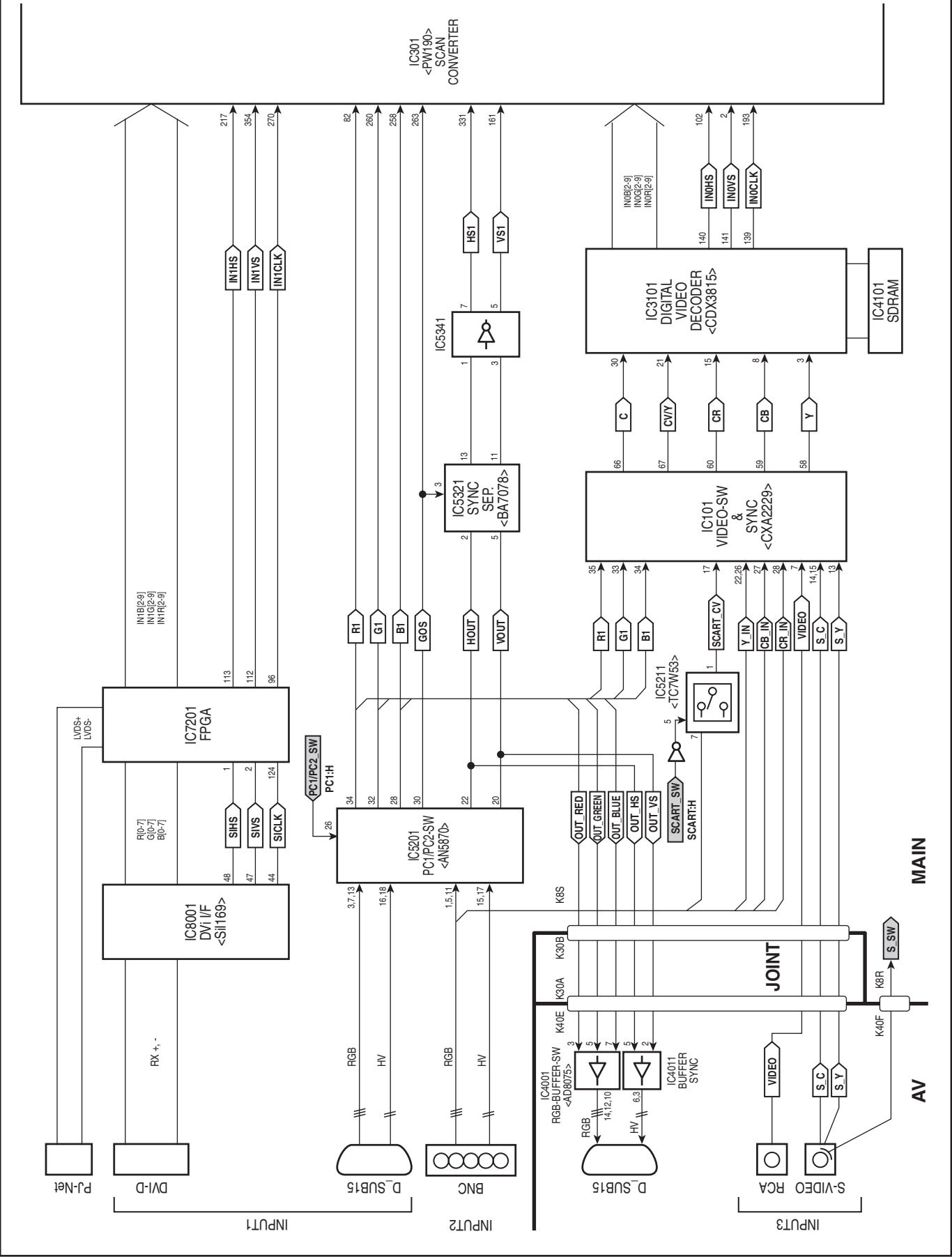
Group/ Item	Item Name	Function	Initial	Range	Note
Group 565	HDCP (1080i - 50)				
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEg		2	0 ~ 15	
Group 566	HDCP (1035i)				
7	OverScan	Over Scan Rate(0~25.5% : 0.1%Step)	0	0 ~ 255	
8	VSBEg		2	0 ~ 15	
Group 981	Color Shading Adj Offset				
0	R-Max		0/0	0-255	
1	R-Mid1		0/0	0-255	
2	R-Mid2		0/0	0-255	
3	R-Min		0/0	0-255	
4	G-Max		0/0	0-255	
5	G-Mid1		0/0	0-255	
6	G-Mid2		0/0	0-255	
7	G-Min		0/0	0-255	
8	B-Max		0/0	0-255	
9	B-Mid1		0/0	0-255	
10	B-Mid2		0/0	0-255	
11	B-Min		0/0	0-255	

Chassis Description

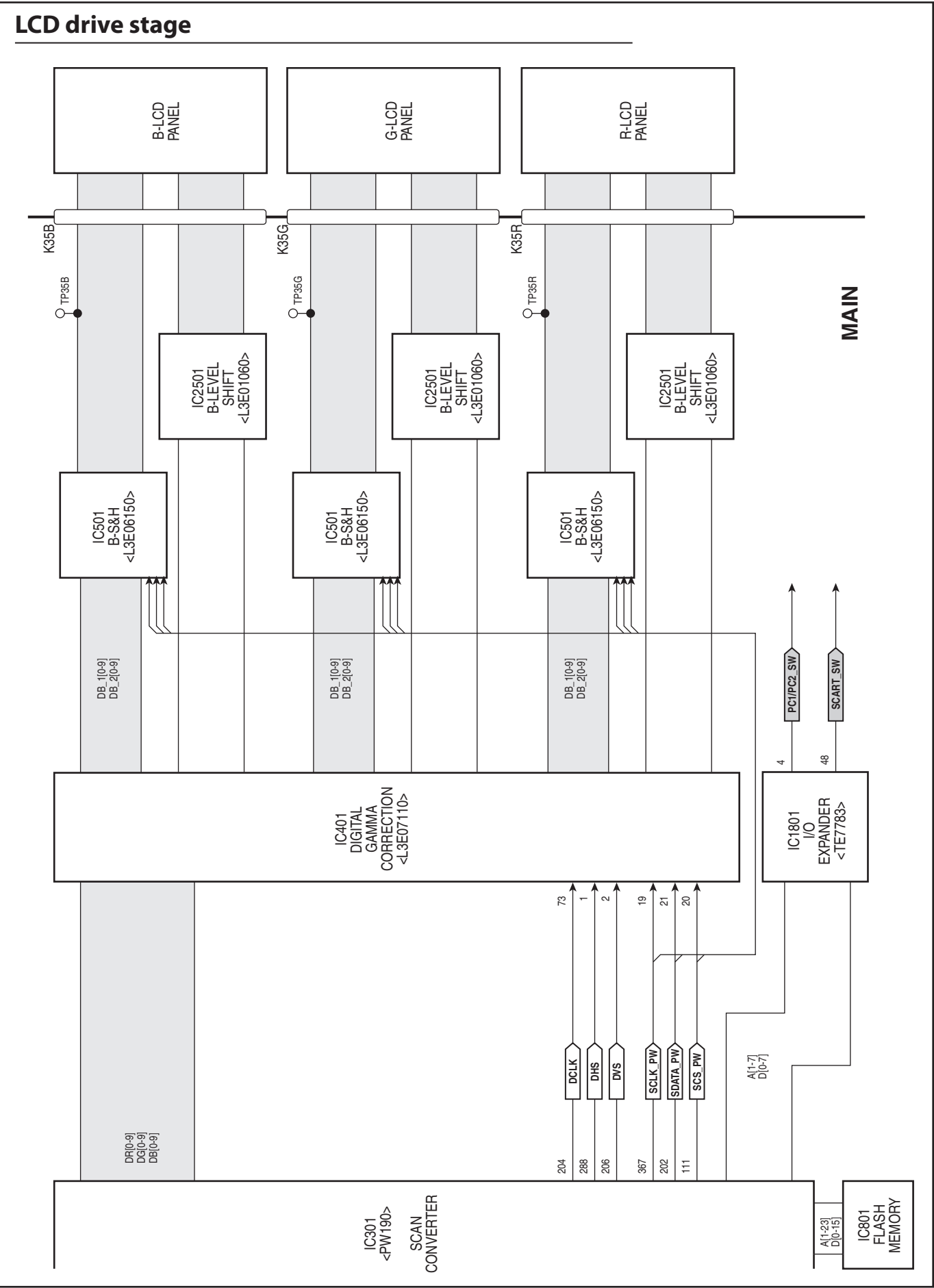
Chassis over view



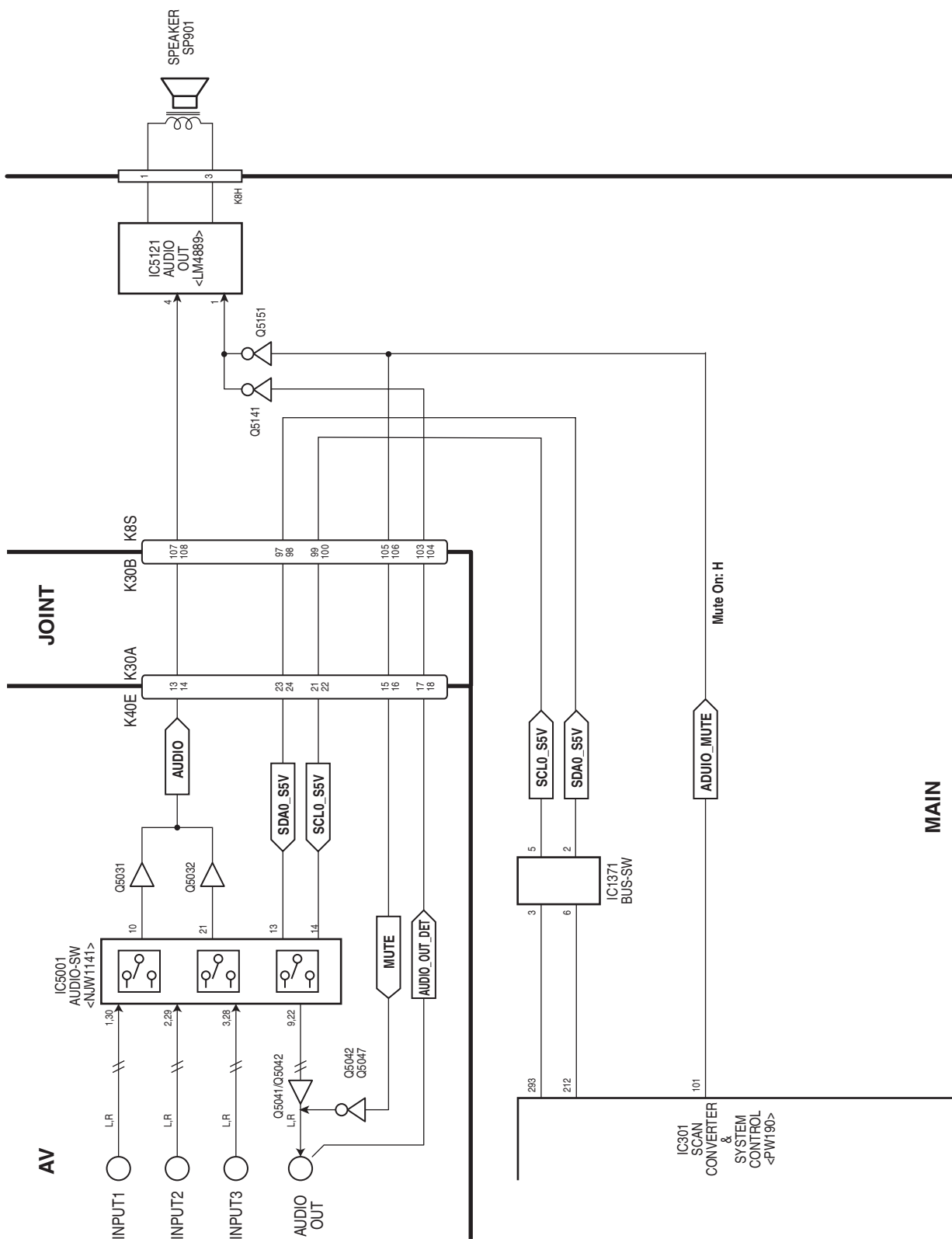
Input & signal processing stage



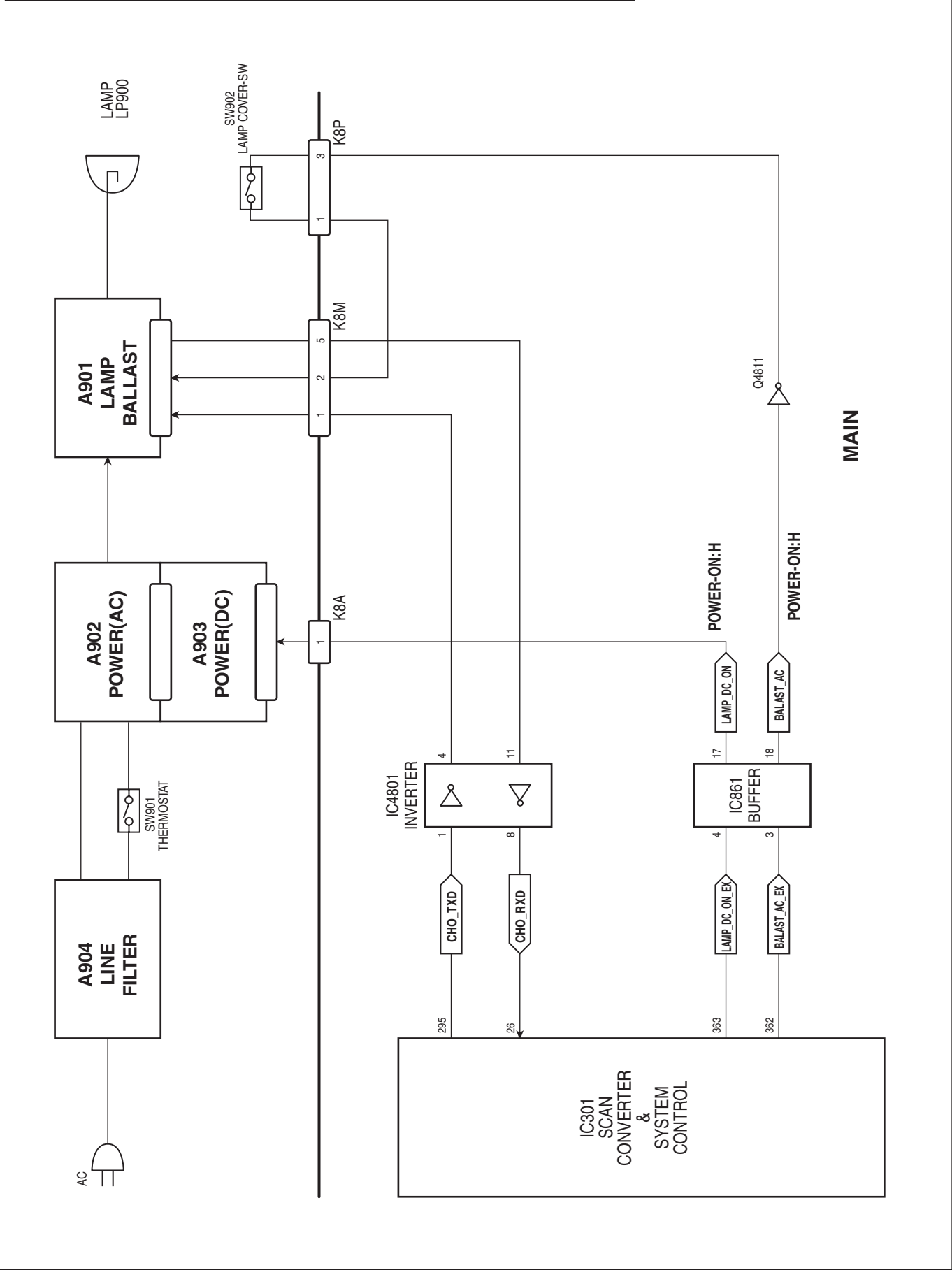
LCD drive stage



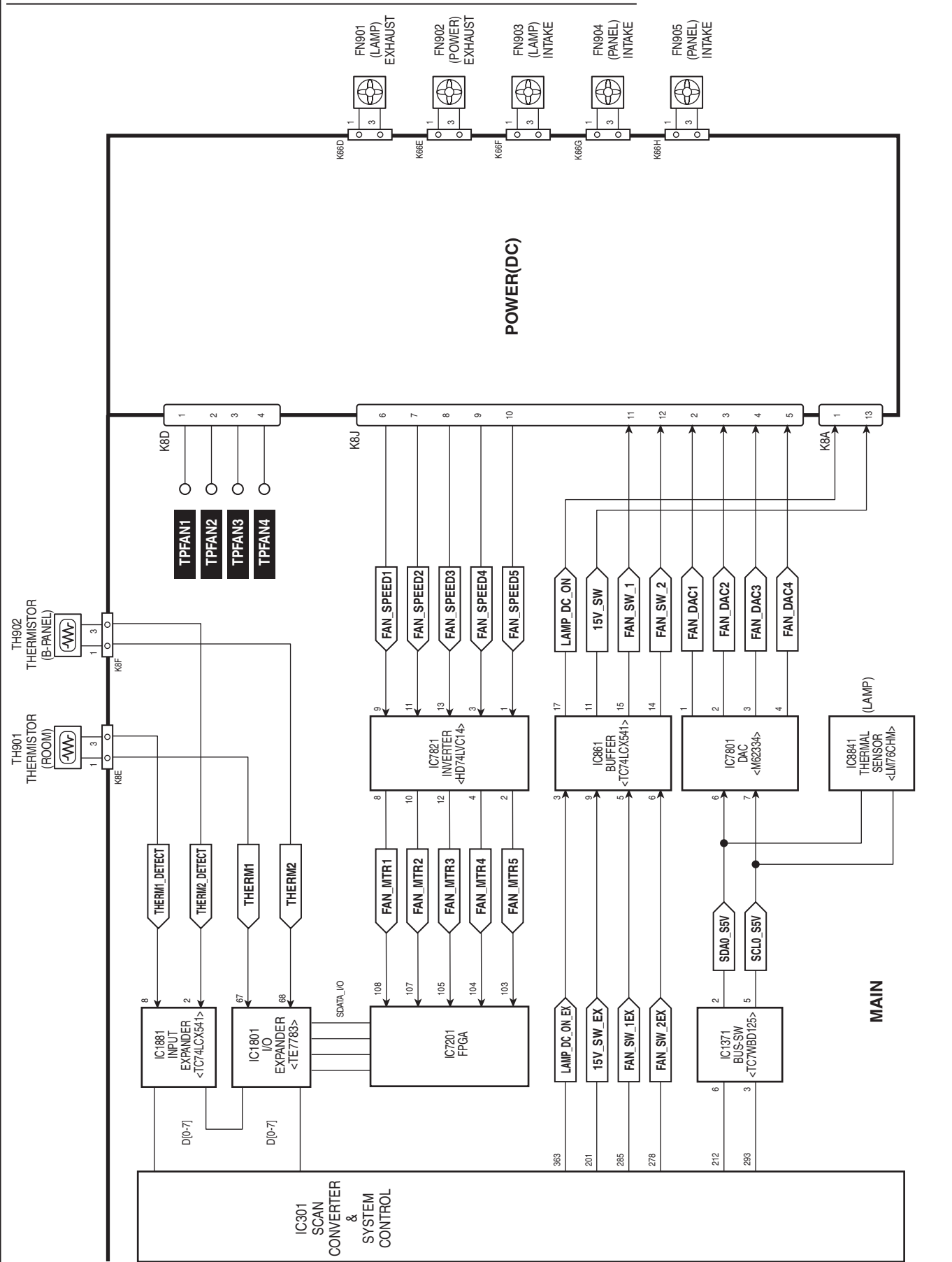
Audio signal processing stage



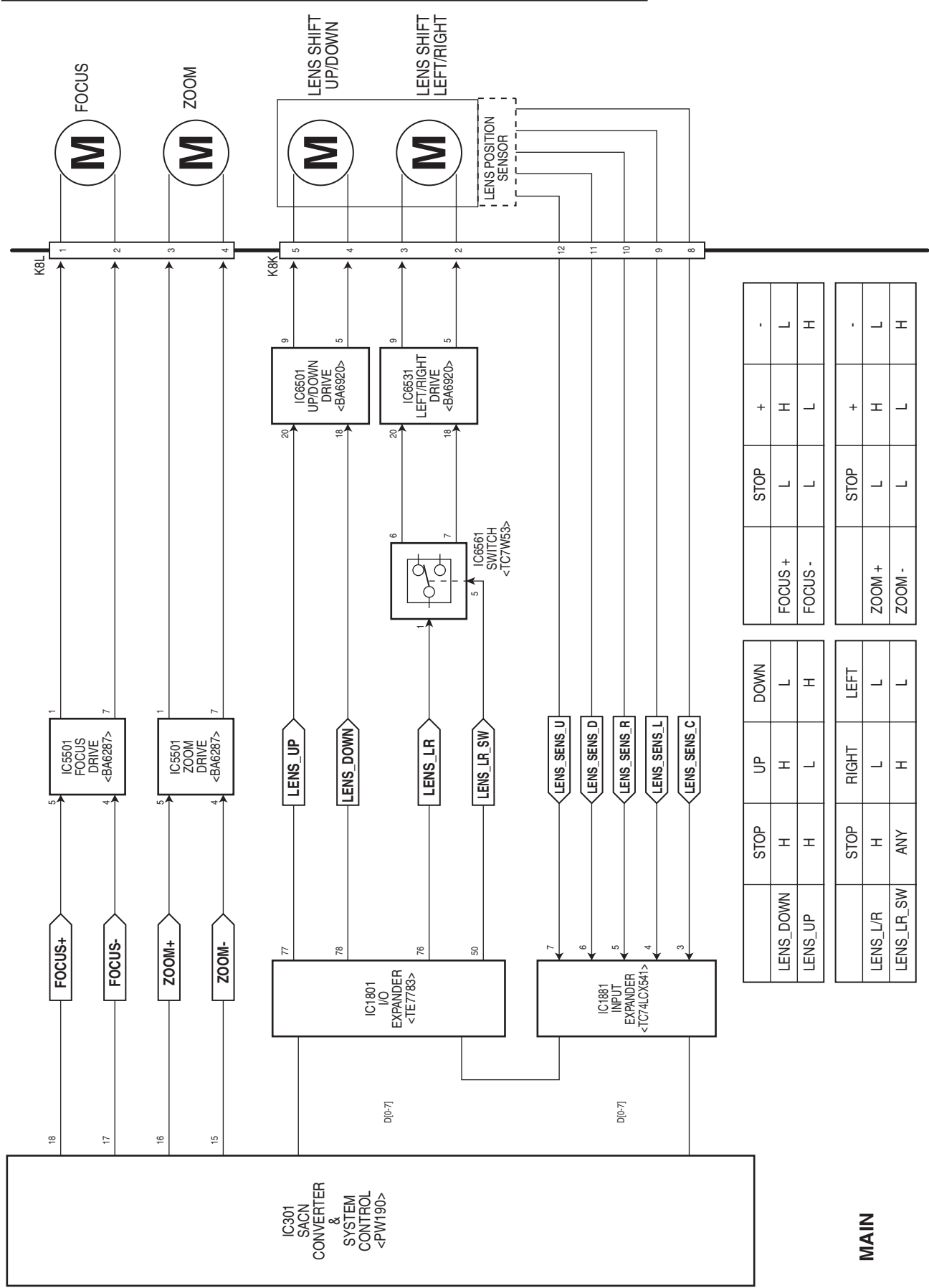
Lamp control stage



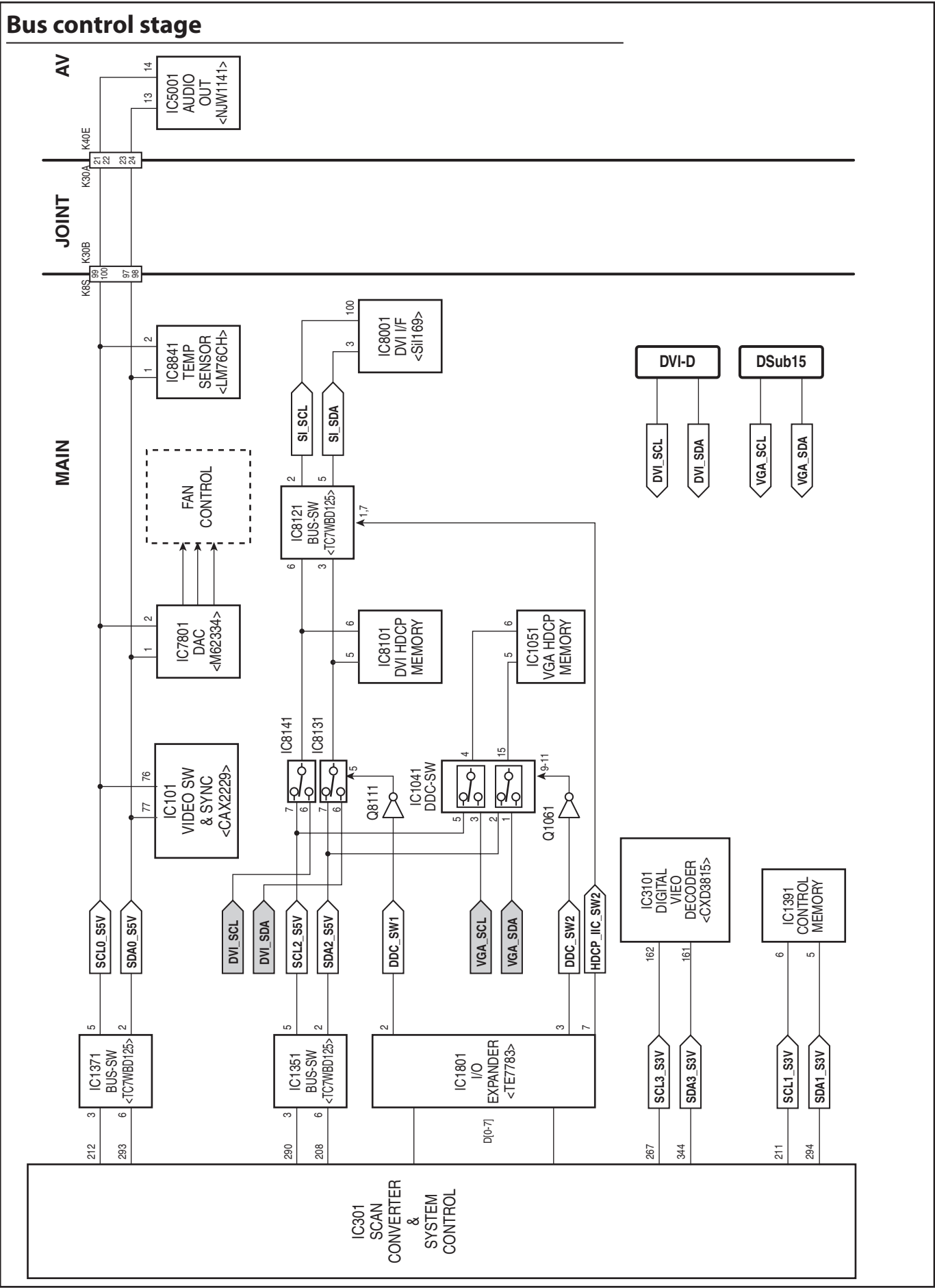
Fan control stage



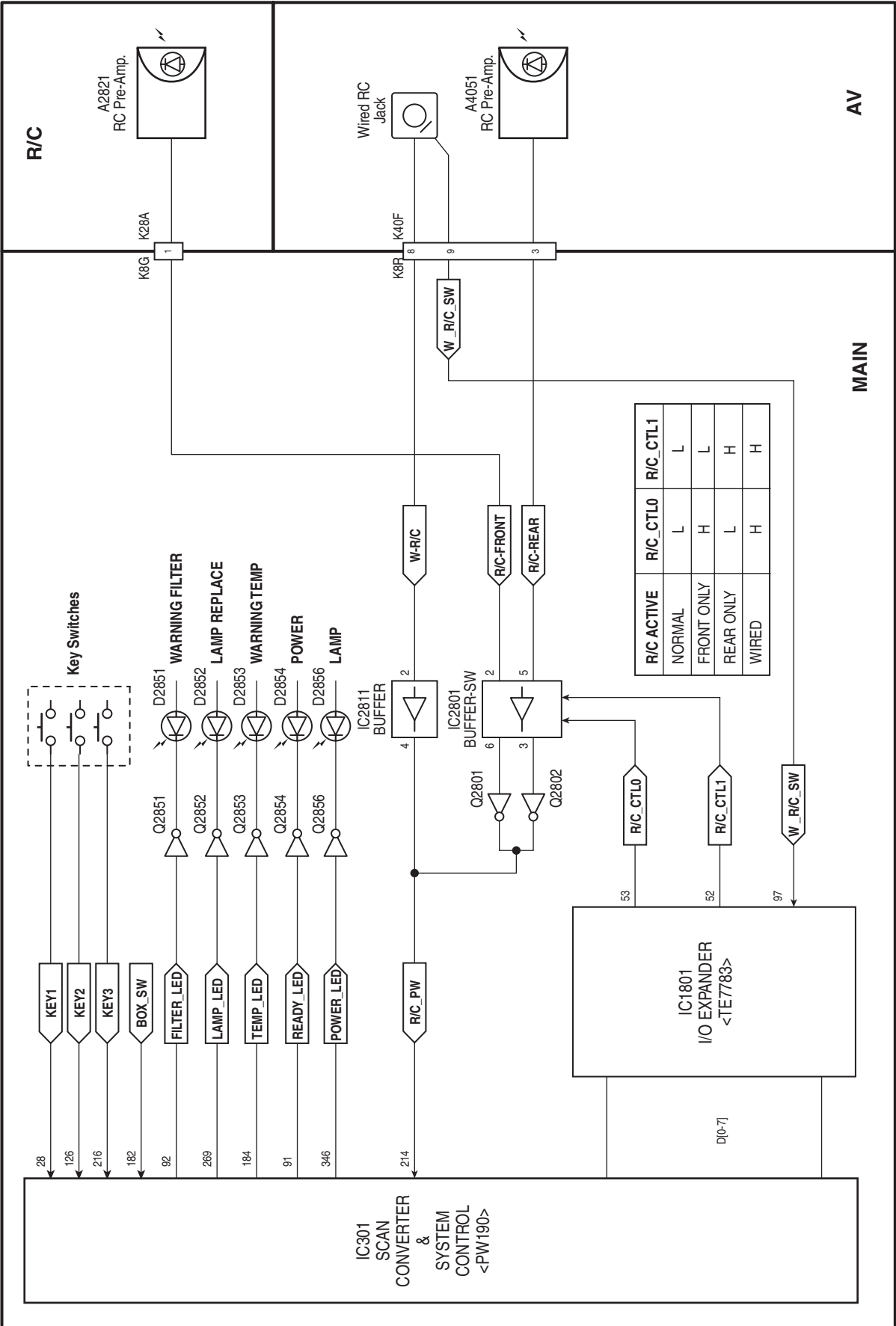
Motor control stage



Bus control stage



LED drive & RC control stage





Indicators and Projector Condition

Check the indicators for projector condition.

WARNING TEMP. indicator







Indicators			Projector Condition
POWER green	LAMP red	WARNING TEMP. red	
●	●	●	The projector is off. (The AC power cord is unplugged.)
○	●	●	The projector is in stand-by mode. Press the ON/STAND-BY button to turn on the projector.
○	○	●	The projector is operating normally.
○ ⋮	●	○ ⋮	The temperature inside the projector is abnormally high. The projector cannot be turned on. When the projector is cooled down enough and the temperature returns to normal, the POWER indicator stops blinking and the projector can be turned on. (The WARNING TEMP. indicator keeps blinking.) Check and clean the filter.
○	●	○ ⋮	The projector has been cooled down enough and the temperature returns to normal. When turning on the projector, the WARNING TEMP. indicator stops blinking. Check and clean the filter.
○ ⋮	●	●	The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed and the POWER indicator stops blinking.
POWER, LAMP, WARNING TEMP., WARNING FILTER, and LAMP REPLACE indicators are blinking all together.		○ ⋮	The projector detects an abnormal condition and cannot be turned on. Unplug the AC power cord and plug it again to turn on the projector. If the projector is turned off again, unplug the AC power cord and contact the dealer or the service center. Do not leave the projector on. It may cause an electric shock or a fire hazard.
○ ⋮	○	●	The projector is in the Power management mode.

○ ● ● lighting.

○
⋮ ● ● ● blinking

● ● ● off

WARNING FILTER indicator










Indicators			Projector Condition
POWER green	LAMP red	WARNING FILTER orange	
			The filter is clogged. Stop using the projector immediately and clean or replace the filter (see below).
			The Filter counter reached a set time. Clean or replace the filter as soon as possible.

If filter clogging is detected during operations, the Filter warning icon (red) appears on the screen and the WARNING FILTER indicator blinks orange, urging you to clean or replace the filter. Stop using the projector immediately and clean or replace the filter. The WARNING FILTER indicator and Filter warning icon will not be turned off until the filter is cleaned or replaced by a new one.

Filter warning

Filter warning icon (red) appears on the screen when the projector detects filter clogging.

LAMP REPLACE indicator

Indicators			Projector Condition
POWER green	LAMP red	LAMP REPLACE yellow	
			The lamp cannot light up. (The projector is preparing for stand-by or the projection lamp is being cooled down. The projector cannot be turned on until cooling is completed.)
			The lamp cannot light up. (The lamp has been cooled down enough and the projector is in stand-by mode and ready to be turned on with the ON/STAND-BY button.)
			The lamp has been used overtime. Replace the lamp immediately and then reset the lamp counter. The indicator will be turned off after resetting the counter.

* When the projection lamp reaches its end of life, the LAMP REPLACE indicator lights yellow. When this indicator lights yellow, replace the projection lamp with a new one promptly. Reset the lamp counter after replacing the lamp.

Power failure detection system

Detection of Power failure

Projector provides a protection circuit to prevent the secondary failure when the power failure, fans failure or temperature failure occurs on the projector. The power failure detection lines "P_FAIL_S5V", "P_FAIL_15V", etc. are connected to the main power supplies and fans. When the failure occurs, IC301<SYSTEM CONTROL> receives an error information through the power failure detection lines and turns off the signal "LAMP_DC_ON" output from pin 111 to stop the power supply.

The power failure detection signals are sent to IC1801<I/O EXPANDER> and then sent to IC301<SYSTEM CONTROL>.

Diagnosis Information of Power Failure

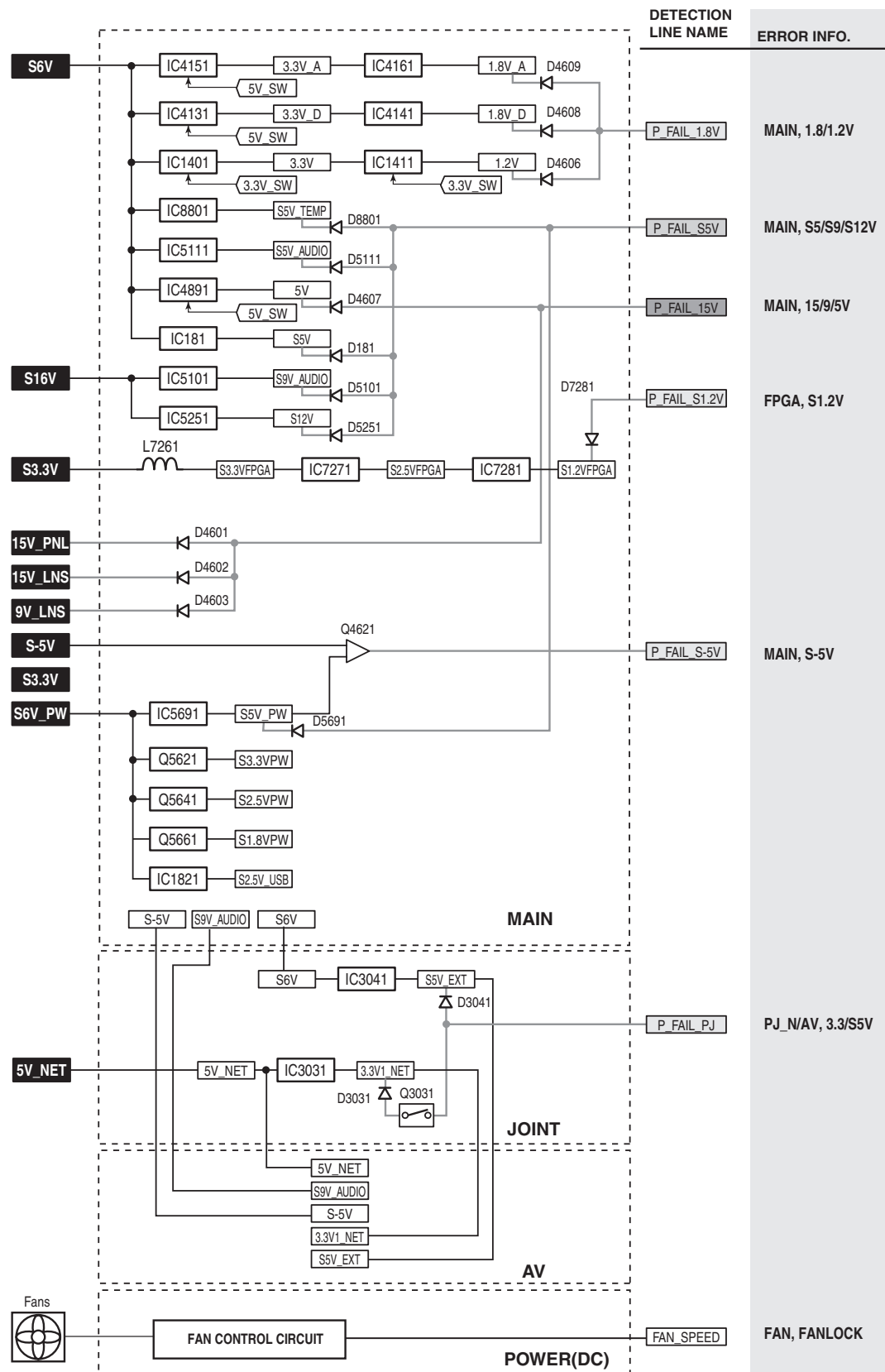
IC1801

Detecting Signal	Failure Circuit/Parts
P_FAIL_1.8V	1.8V, 1.2V and peripheral circuit on the Main Board
P_FAIL_S5V	S5V, S12V, S9V and peripheral circuit on the Main Board
P_FAIL_15V	15V, 5V and peripheral circuit on the Main Board
P_FAIL_S1.2V	S1.2V and peripheral circuit on the Main Board
P_FAIL_S-5V	S-5V and peripheral circuit on the Main Board
P_FAIL_PJ	PJ-Network Board and peripheral circuit on the Main Board
FAN_SPEED	Failure of Fan, FN901, FN902, FN903, FN904, FN905 connected to the Power(DC) Board

Error information table

IC	Pin	Signal Name	Connection Lines	Error Information	Failure Area
IC1801	61	P_FAIL_1.8V	1.8V, 1.2V	MAIN, 1.2/1.8V	3.3V, 1.2V, 1.8V line on Main
	62	P_FAIL_S-5V	S-5V	MAIN, S-5V	S-5V line on Main, AV
	63	P_FAIL_S1.2V	S3.3V/FPGA, S2.5V/FPGA/ S1.2V	FPGA, S1.2V	S3.3V, S2.5V, S1.2V line on Main
	64	P_FAIL_15V	15V, 5V	MAIN, 15/9/5V	15V_PNL, 15V_LNS, 9V_LNS, 5V line on Main
	65	P_FAIL_S5V	S5V, S12V, S9V	MAIN, S5/S9/S12	S5V_TEMP, S5V_AUDIO, S5V, S9V_AUDIO, S12V, S5V_PW line on Main
	66	P_FAIL_PJ	PJ-Network Board, AV	PJ_N/AV, 3.3/S5V	PJ-Network Board, 3.3V, S5V line on AV, Joint
IC7201	103 I 108	FAN_SPEED5 (FAN_MTR5) I FAN_SPEED1 (FAN_MTR1)	FAN CONTROL	FAN, FANLOCK	Fan Control on Power(DC)

Power failure detection tree



Error History Log

This projector provides the error history log function. To check the logs, you need to enter the service mode and select Group No. "220" and Item No. "0" to "49". The error code is displayed on the Data column. The description of the error code is listed on the table below.

* How to enter the service mode and select the group, item and data value, see "Service Adjustment Menu Operation".

Group No.	Item No.	Data (Error Code)	(See table below)
220	0	*	<- Latest Error
	1	*	
	2	*	
	3	*	
	.	*	
	.	*	
	.	*	
	48	*	
	49	*	

Error	Error Code	Error Information (See Power Failure Detection Tree)
Normal	0	-
Power Failure	1000	MAIN, 1,8/1.2V
	1001	MAIN, S-5V
	1002	FPGA, S1.2
	1003	MAIN, 15/9/5V
	1004	MAIN, S5/S9/S12V
	1005	PJ_N/AV, 3.3/S5V
	1006	FAN1, FANLOCK
	1007	FAN2, FANLOCK
	1008	FAN3, FANLOCK
	1009	FAN4, FANLOCK
	1010	FAN5, FANLOCK
	1011	FPGA, CONFIG
Temperature Error	2000	Sensor A detects abnormal temperature.
	2001	Sensor A fails measurement.
	2100	Sensor B detects abnormal temperature.
	2101	Sensor B fails measurement.
	2102	Sensors B-A temperature error.
	2200	Sensor C detects abnormal temperature.
	2201	Sensor C fails measurement.
	2202	Sensors C-A temperature error.
Lamp Error	3000	Lamp1 fails on
	3001	Lamp1 goes out
	3002	Communication Error on Lamp1
Filter Error	4000	Air Filter Clogged

How to clear the Error History Log

1. Enter the Service Mode, and select Group No. "220" and Item No. "50".
- 2 The history log will be cleared when the Data Value is set to "10". The value automatically returns to "0".

* How to enter the service mode and select the group, item and data value, see "Service Adjustment Menu Operation".

Diagnosis of Power Failure with RS-232C port

This projector provides a function to get the error information of the projector by using the RS-232C serial port for the power failure diagnosis.

The further error information of the power failure and fan failure can be found out by using this function.

Diagnosis procedure

- 1 Connect a RS-232C serial cross cable to SERIAL PORT IN on the projector and serial port on the PC.
- 2 Launch a communication software "Hyper terminal" provided with PC and setup the communication condition as follows;

Baud rate	: 19200 bps
Parity check	: none
Stop bit	: 1
Flow control	: none
Data bit	: 8

- 3 Turn on the projector. Check that the LED shows a power failure. (All the LEDs except LAMP LED are blinking)

- 4 Type a diagnosis command of the power failure "CR ALLPFAIL" and press a "ENTER" key within 1 second on the command window of the software.

The error information will be listed on the window as the right.

Check the status column. If "NG" is listed, the power failure occurs on its signal line(Power Line Name). In case of the right table, this error information means that the power failure occurs on the S1.2V power supply on the FPGA circuit on the main board. Check if the parts connected to 6V power supply line are defective.

Error Information (Signal Name)

CR ALLPFAIL			
000	MAIN, 1.8/1.2V	OK	← Status
000	MAIN, S-5V	OK	
000	FPGA, S1.2V	NG	← Error
000	MAIN, 15/9/5V	OK	
000	MAIN, S5/S9/S12V	OK	
000	PJ_N/AV, 3.3/S5V	OK	
000	FAN, FANLOCK	OK	
.....			

Also the error information may be listed multiple as the below;

In the above case, 2 kinds of causes are considered. One is the power failure occurs on the multiple places at the same time, other is a power failure affects multiple power supply lines even if the failure occurs on the single place.

In the first case, Check if the parts connected to the multiple power supply lines are defective. In the later case, determine a failure point referring to the power supply flow chart on previous page. Basically, if the power failure occurs on the upper side of power supply, the power failure is also detected on lower side of power supply frequently. If the failure occurs on the lower side of power supply, it is lightly affected to the upper side of the power supply. In the above case, because the failure occurs on the S6V power supply on the MAIN circuit on the main board, the failure is also detected on the 5V power supply and S5V power supply on the main board.

CR ALLPFAIL			
000	MAIN, 1.8/1.2V	OK	
000	MAIN, S-5V	OK	
000	FPGA, S1.2V	OK	
000	MAIN, 15/9/5V	NG	← Error
000	MAIN, S5/S9/S12V	NG	← Error
000	PJ_N/AV, 3.3/S5V	OK	
000	FAN, FANLOCK	OK	
.....			

* See "Power Failure Detection Tree" for further description of the Error Information.

Control Port Functions

System Control I/O Port Functions (PW190)

PIN	PORT	NAME	DESCRIPTION	I/O
1	A1	SIPD	Sil169 Power Down, Power Down: L	O
2	A2	IN0VS	V-Sync Input0	I
10	A10	ZOOM+	Zoom Drive +	O
11	A11	3.3V_SW_EX	3.3V Power Supply On/On Drive, Power On: H	O
26	A26	CHO_RXD	UART 2 Receiver	I
101	B2	AUDIO MUTE	Audio Mute, Mute On: H	O
102	B3	IN0HS	H-Sync Inout0	I
109	B10	FOCUS+	Focus Drive +	O
110	B11	5V_SW_EX	5V Power Supply On/Off Drive, Power On: H	O
111	B12	SCS_PW	SCS	O
124	B25	TXD_PW	UART 1 Transceiver	O
193	C3	IN0CLK		I
200	C10	FOCUS-	Focus Drive -	O
201	C11	FOCUS+	Focus Drive +	O
202	C12	SDATA_PW	SDATA	O
204	C14	DCLK	DCLKOUT	O
206	C16	DVS	V-Sync. Out	O
208	C18	SDA2	2-Wire Serial Data 2	O
211	C21	SCL1	2-Wire Serial Clock 1	O
212	C22	SDA0	2-Wire Serial Data 0	O
214	C24	R/C	Remote Control Signal In	I
28	C26	KEY1	Key Input1	I
277	D4	IN1HS	H-Sync Input1	I
278	D5	FAN_SW_2EX	Fan Control Signal, On: H	O
284	D11	ZOOM-	Zoom Drive -	O
285	D12	FAN_SW_1EX	Fan Control Signal, On: H	O
288	D15	DHS	H-Sync Out	O
290	D17	SCL2	2-Wire Serial Clock 2	O
293	D20	SCL0	2-Wire Serial Clock 0	O
294	D21	SDA1	2-Wire Serial Data 1	O
295	D22	CHO_TXD	UART 2 Transceiver	O
126	D25	KEY2	Key Input2	I
29	D26	OPTION1(LAMP)	Option Selector LAMP	I
354	E6	IN1VS	V-Sync Input1	I
362	E14	BALAST_AC_EX	GPIO	O
363	E15	LAMP_DC_ON_EX	GPIO	O
367	E19	SCLK	3-Wire Serial Clock	O
368	E20	RXD_PW	UART 1 Receiver	I
369	E21	IRRCVR1	RC Input n/a	I
370	E22	OPTION4	Option Selection 4	I
216	E24	KEY3	Key Input 3	I
127	E25	OPTION2	Option Selection 2	I
30	E26	FAN_DAC2_PW	Fan Control 2	O
298	F23	OPTION3(BRAND)	Option Selection BRAND	I
128	F25	FAN_DAC3_PW	Fan Control 3	O
373	H22	FAN_DAC1_PW	Fan Control 1	O
374	J22	FAN_DAC4_PW	Fan Control 4	O
92	K1	FILTER_LED	Filter LED Drive, On: H	O
185	K2	RST_STATUS_OUT	Reset Out	O
270	K3	IN1CLK	IN1CLK	I
347	K4	IN1PEN	GPIO	I
91	L1	READY_LED	Ready LED Drive, On: H	O
184	L2	TEMP_LED	Temp. LED Drive, On: H	O
269	L3	LAMP_LED	Lamp LED Drive, On: H	O
346	L4	POWER_LED	Power LED Drive, On: H	O
90	M1	XSTNDBYEN	Standby Mode On/Off for I/O Exp. On: H	O
183	M2	XRST	Reset for I/O Exp. L-H-L	O
268	M3	RST_STATUS_IN		
345	M4	BUFFER_CS		
89	N1	CHO_RXD_PW	Dimmer Control,Normal: H Failure: L	I/O
192	N2	BOX_SW	PJ-Network Box Detection, Yes: H No: L	I
287	N3	SCL_3.3V	IIC Bus Control SCL	O
344	N4	SDA_3.3V	IIC Bus Control SDA	I/O
413	N5	IRM_RST	Reset for Gamma, S&H, Level Shift	O
474	N6	WAKEUP	I/O Exp. Wakeup	O
263	U3	SOG1	Sync On Green Input	I
82	Y1	R1	Ch1 Analog Input Red	I
280	Y3	G1	Ch1 Analog Input Green	I
174	AA2	G1	Sync On Green Input	I
258	AB3	B1	Ch1 Analog Input Blue	I
331	AC7	HS1	Channel 1 Hsync (3.3V)	I
253	AD6	HSYNCIN2	Channel 0 Hsync (3.3V)	I

Control Port Functions

PIN	PORT	NAME	DESCRIPTION	I/O
248	AD11	FB	Scart Fast Blanking input	I
166	AE6	XTAL27M	Crystal oscillator	
162	AE10	RESET	Reset	I
161	AE11	VS1	Channel 1 VSync	I
50	AE26	NMI	NMI	I
71	AF5	XTAL27M	Crystal oscillator	
66	AF11	VSYNCIN2	Channel 0 VSync	I

Parallel I/O Expander Port Functions (TE7783)

PIN	PORT	NAME	DESCRIPTION	I/O
1	DVss	DVss	-	-
2	P1	DDC_SW1	DVI/HDC DDC Switch 1 Normal: L, Connect: H	O
3	P2	DDC_SW2	Analog DDC Switch 2 Normal: L, Connect: H	O
4	P3	PC1/PC2_SW	PC1 Analog / PC2 AnalogSwitch H: PC1, L: PC2	O
5	P4	SIRST	Sil169 Reset H-L-H	O
6	P5	DVI_HPD	DVI Hot Plug Detection	O
7	P6	HDCP_IIC_SW	HDCP Authentication IIC Bus Switch, L: HDCP H: Others	O
8	P7	PJ_UPDATE	PJ-Net Forced Write Mode, Normal: H	O
9	P8	NET_H/L	PJNet Command Request	O
10	DVdd25	DVdd25	-	-
11	DVss	DVss	-	-
12	DVdd33	DVdd33	-	-
13	A6	A6	Address 6	I
14	A5	A5	Address 5	I
15	A4	A4	Address 4	I
16	A3	A3	Address 3	I
17	A2	A2	Address 2	I
18	A1	A1	Address 1	I
19	A0	A0	Address 0	I
20	XCS	XCS0	Chip Select	I
21	XRD	XRD	Write Enable	I
22	XWR	XWR	Write Enable	I
23	RSTPOL	RSTPOL	Polarity Select for Reset	I
24	DVss	DVss	-	-
25	DVdd33	DVdd33	-	-
26	D7	D7	Data Bus 7	I/O
27	D6	D6	Data Bus 6	I/O
28	D5	D5	Data Bus 5	I/O
29	D4	D4	Data Bus 4	I/O
30	D3	D3	Data Bus 3	I/O
31	D2	D2	Data Bus 2	I/O
32	D1	D1	Data Bus 1	I/O
33	D0	D0	Data Bus 0	I/O
34	WAKEUP	WAKEUP	Wakeup	O
35	DVss	DVss	-	-
36	RST	RST	Reset Input	I
37	DVdd33	DVdd33	-	-
38	XI	XI	XTAL IN	I
39	XO	XO	XTAL OUT	O
40	DVss	DVss	-	-
41	DVdd33	DVdd33	-	-
42	XCS1	XCS1	Ext. Chip Select	O
43	XSTDBYEN	XSTDBYEN	Standby Mode On/Off	I
44	DVdd25	DVdd25	-	-
45	XINVALID	XINVALID	Serial Port Enable	I
46	DVss	DVss	-	-
47	XINT	XINT	Level Output	O
48	P21	SCART_SW	SCART Switch, SCART: H Others: L	O
49	P22	PROG_I/O	Configuration Start Pin	O
50	P23	LENS_LR_SW	LensMoving Switch	O
51	P24	STB_I/O	FPGA Chip Select (Strobe)	O
52	P25	R/C_CTL1	Rear-RC Selection Switch, L: Rear	O
53	P26	R/C_CTL0	Front-RC Selection Switch, L: Front	O
54	P27	USB_VBUS	USB VBUS	I
55	P28	D+ PULL-UP	USB D+ Pull-up Control	O
56	DVss	DVss	-	-
57	VREFN	VREFN	Reference Voltage Output	
58	VCOM	VCOM	Opamp Bias Tap	
59	VREFP	VREFP	Reference Voltage Output	
60	Avss	Avss	-	-
61	AIN1	P-FAIL_1.8V	1.8V Power Failure Detection	AI
62	AIN2	P-FAIL_3.3V	3.3V Power Failure Detection	AI
63	AIN3	P-FAIL_1.2V	1.2V Power Failure Detection	AI

Control Port Functions

PIN	PORT	NAME	DESCRIPTION	I/O
64	AIN4	P-FAIL_15V	15V Power Failure Detection	AI
65	AIN5	P-FAIL_5V	5V Power Failure Detection	AI
66	AIN6	P-FAIL_PJ	PJ-Net Power Failure Detection	AI
67	AIN7	THERM1	Temp Error Detection (Room)	AI
68	AIN8	THERM2	Temp Detection (TEMP C Blue Panel)	AI
69	AVdd33	AVdd33	-	-
70	DVdd33	DVdd33	-	-
71	XCS2	XCS2	Ext. Chip Select	O
72	P31	I/O_PJ_UART	PJ-Net Command (PW:TXD)	O
73	P32	PJ_I/O_UART	PJ-Net Command (PW:RXD)	I
74	P33	M_TXD	PJ-Net AirMouse TXD	O
75	P34	Not Used		I
76	P35	LENS_LR_PWM	Lens Shift Left/Right PWM Output, L: Move, H: Stop	O
77	P36	LENS_UP+	Lens Shift Up, L: Move, H: Stop	O
78	P37	LENS_DOWN-	Lens Shift Down, L: Move, H: Stop	O
79	P38	NET_SW	PJ-Net Power On/Off	O
80	UVss	UVss	-	-
81	DMINUS	DMINUS	USB D-	I/O
82	DPLUS	DPLUS	USB D+	I/O
83	UVdd33	UVdd33	-	-
84	DVdd25	DVdd25	-	-
85	XCS3	XCS3	Ext. Chip Select	O
86	DVss	DVss	-	-
87	DVss	DVss	-	-
88	RSTMSK	RSTMSK	Internal Reset Mask	I
89	DVdd33	DVdd33	-	-
90	DVss	DVss	-	-
91	P11	SCLK_I/O	Configuration Clock	O
92	P12	SDATA_I/O	Configuration Data / FPGA Data Out	O
93	P13	SDTO_I/O	FPGA Data In	I
94	P14	VD_RST	Video Decoder(CXD3815) Reset L-H	O
95	DVss	DVss	-	-
96	DVss33	DVss33	-	-
97	P15	W_RC_SW	Wired RC Detectionm H: Not Inserted, L: Inserted	I
98	P16	PRODUCT_OPT		I
99	P17	INT_I/O	Configuration Status	I
100	P18	DONE_I/O	Configuration Process End Signal	I

IIC Bus D/A Converter Port Functions (M62334)

PIN	PORT	NAME	DESCRIPTION	I/O
1	A1	FAN_DAC1	Fan Control Analog Output	AO
2	A2	FAN_DAC2	Fan Control Analog Output	AO
3	A3	FAN_DAC3	Fan Control Analog Output	AO
4	A4	FAN_DAC4	Fan Control Analog Output	AO
5	GND	GND	-	-
6	SDA	SDA	IIC BUS SDA(5V)	I/O
7	SCL	SCL	IIC BUS SCL(5V)	I/O
8	Vcc	Vcc	-	-

Parallel Bus Input Expander Port Functions (TC74LCX541)

PIN	PORT	NAME	DESCRIPTION	I/O
1	OE1	CS1	PW190 Chip Select	I
2	A1	THERM2_DETECT	Temp. Sensor 2 Detection, H: Error, L: Normal	I
3	A2	LENS_SENS_C	Lens Shift Sensor (Left-Right Center), H: Center, L: Not Center	I
4	A3	LENS_SENS_L	Lens Shift Sensor (Left), L: End	I
5	A4	LENS_SENS_R	Lens Shift Sensor (Right), L: End	I
6	A5	LENS_SENS_D	Lens Shift Sensor (Down), L: End	I
7	A6	LENS_SENS_U	Lens Shift Sensor (Up), L: End	I
8	A7	THERM1_DETECT	Temp. Sensor 1 Detection, H: Error, L: Normal	I
9	A8	S_SW	S-Terminal Detection, L: Inserted	I
10	GND	GND	-	-
11	Y8	D7	Data Bus 7	O
12	Y7	D6	Data Bus 6	O
13	Y6	D5	Data Bus 5	O
14	Y5	D4	Data Bus 4	O
15	Y4	D3	Data Bus 3	O
16	Y3	D2	Data Bus 2	O
17	Y2	D1	Data Bus 1	O
18	Y1	D0	Data Bus 0	O
19	OE2	OE2	Output Enable2	I
20	Vcc	Vcc	-	-

Waveform

[illegible]

Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:

Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be very careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

Disassembly cleaning method should only be performed when the unit is considerably dirty and cannot be sufficiently cleaned by air spraying alone.

Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

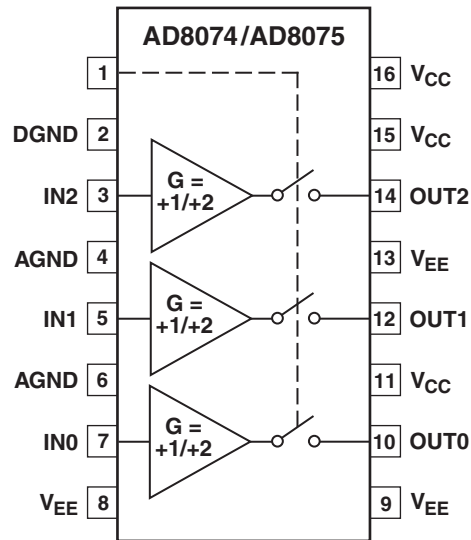
Caution:

The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.

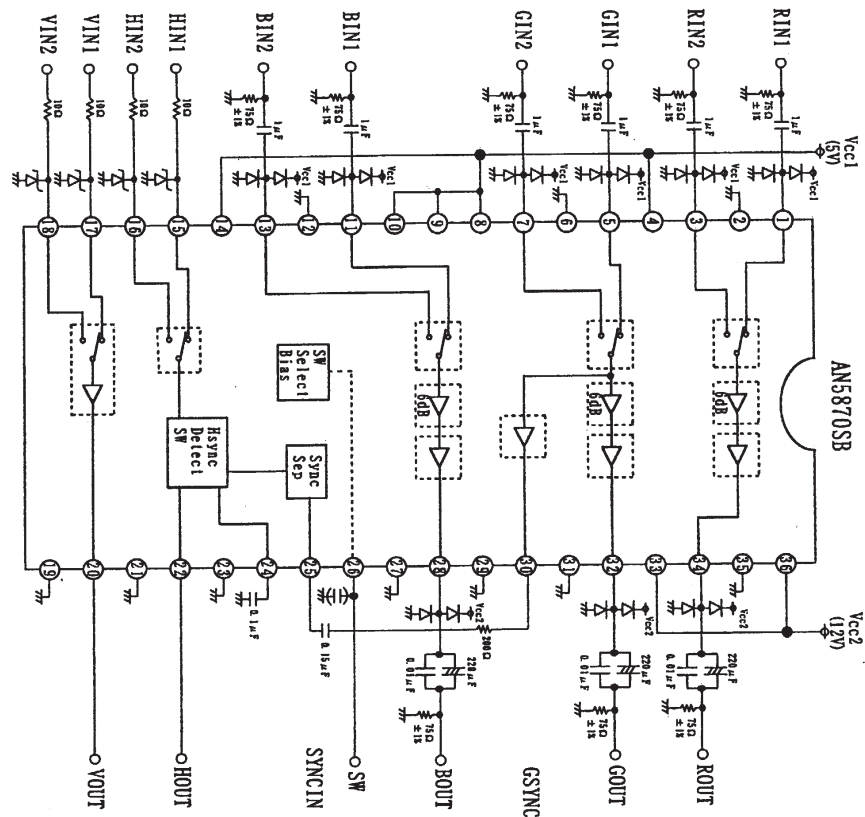
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

IC Block Diagrams

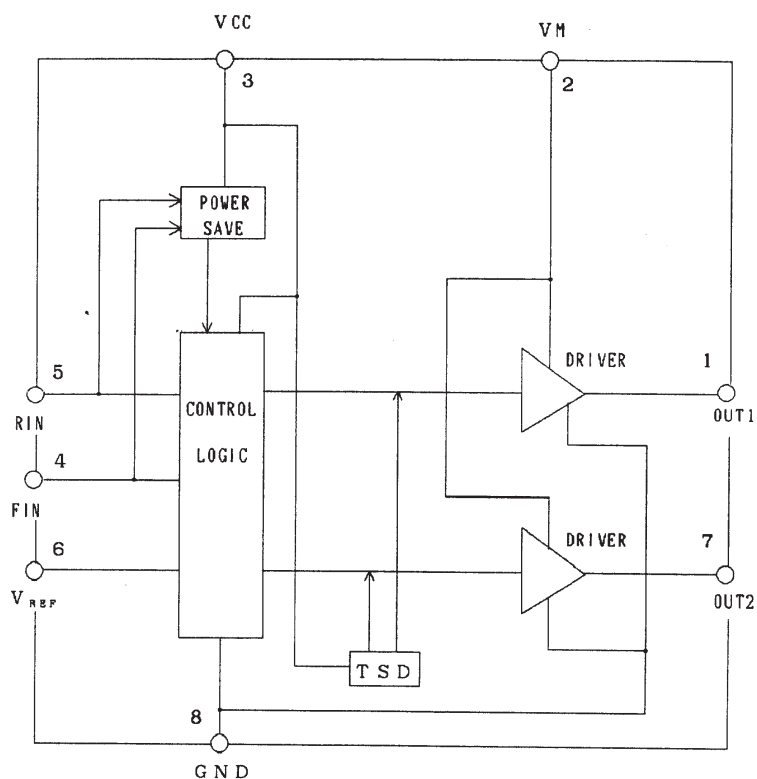
● AD8074/AD78085 <Amp-SW, IC4001, IC5202>



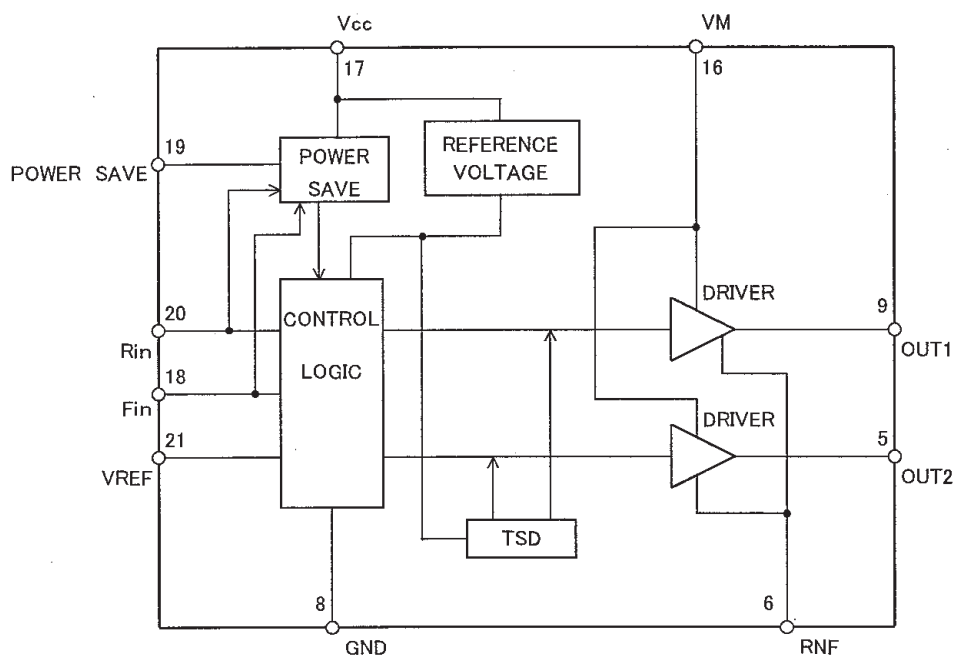
● AN5870 <Signal Switch, IC5201>



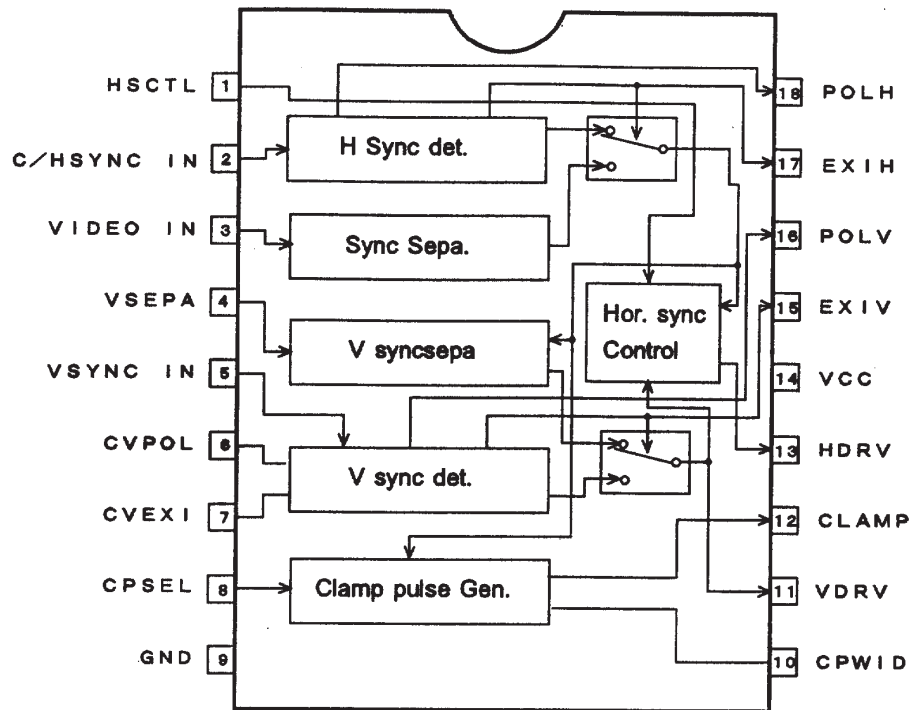
● BA6287 <Motor Drive Focus, Zoom, IC5501, IC5551>



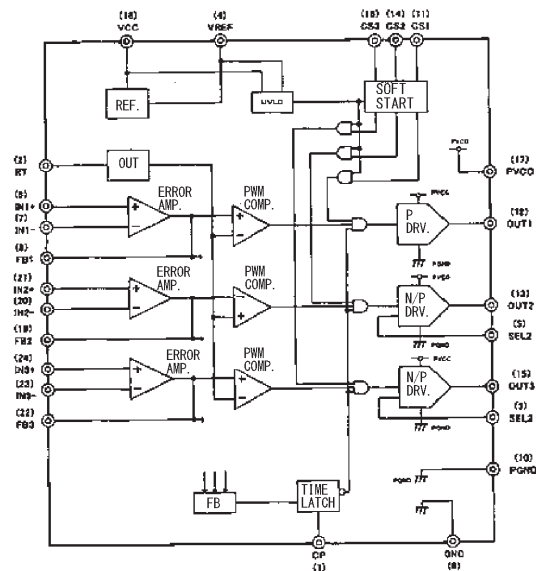
● BA6920 <Motor Drive Lens Shift Up/Down, Left/Right, IC6501, IC6531>



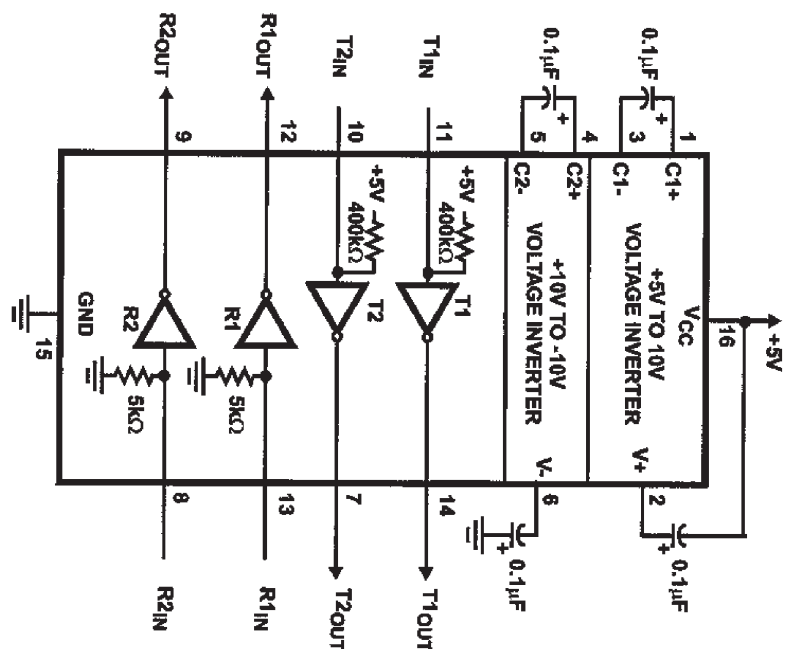
● BA7078 <Sync Separator, IC5321>



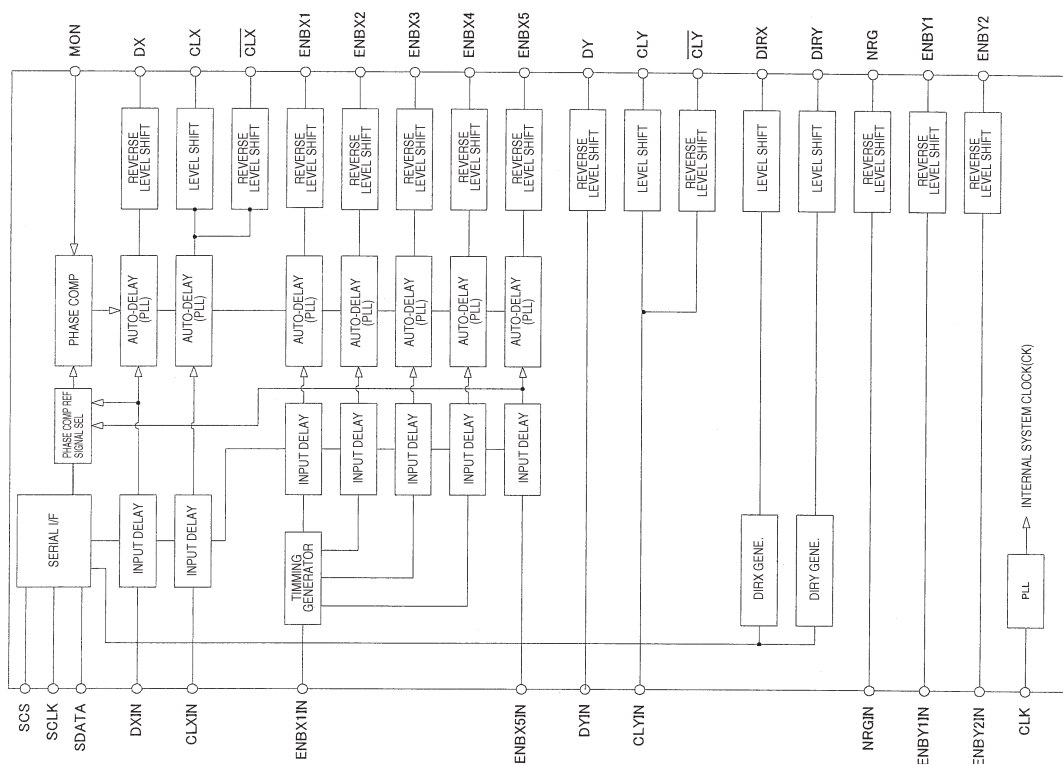
● FA7711V <DC-DC Controller, IC5601>



● HIN202EIB <RS-232C Driver, IC3801>



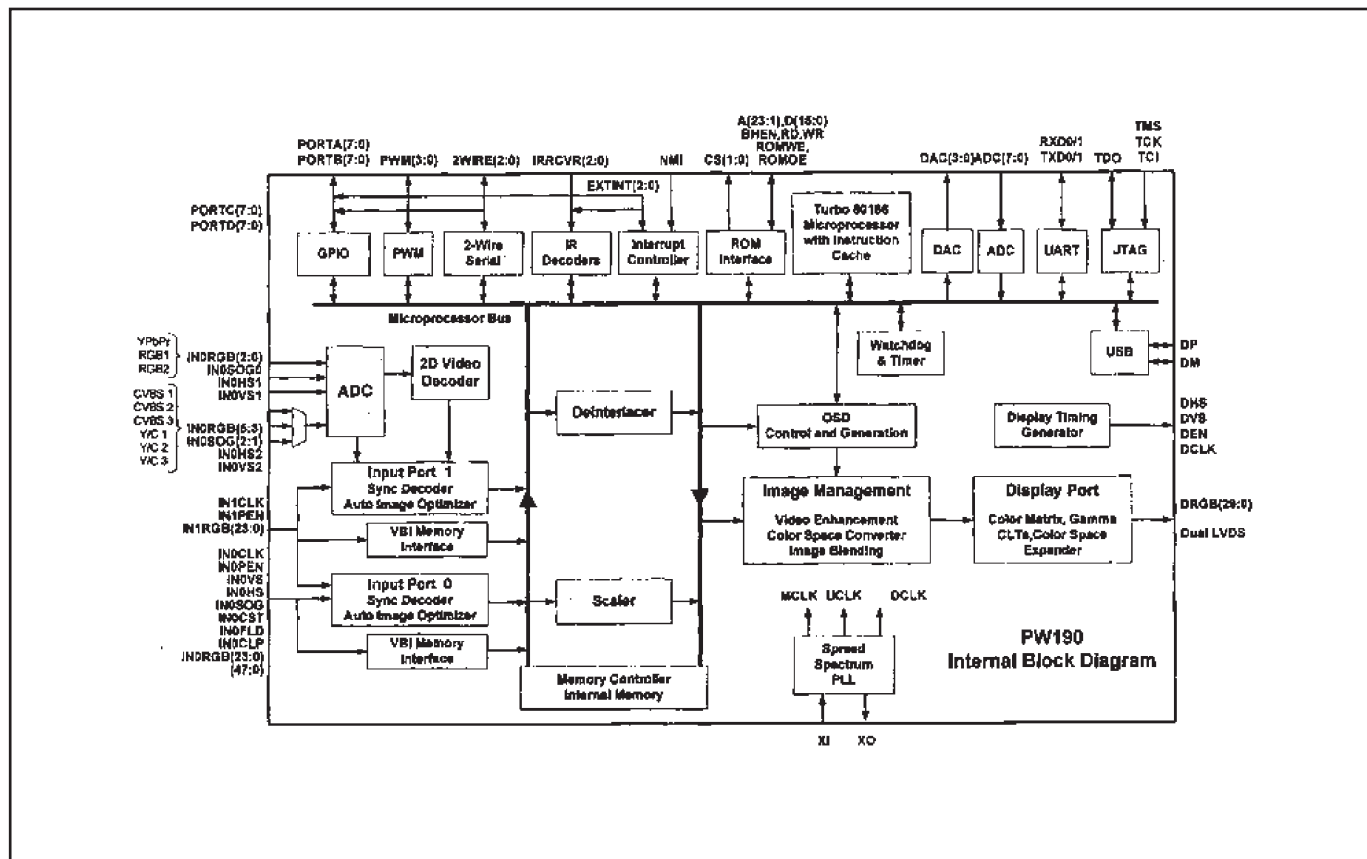
● L3E01060 <Level Shift, IC2501, IC2531, IC3561>



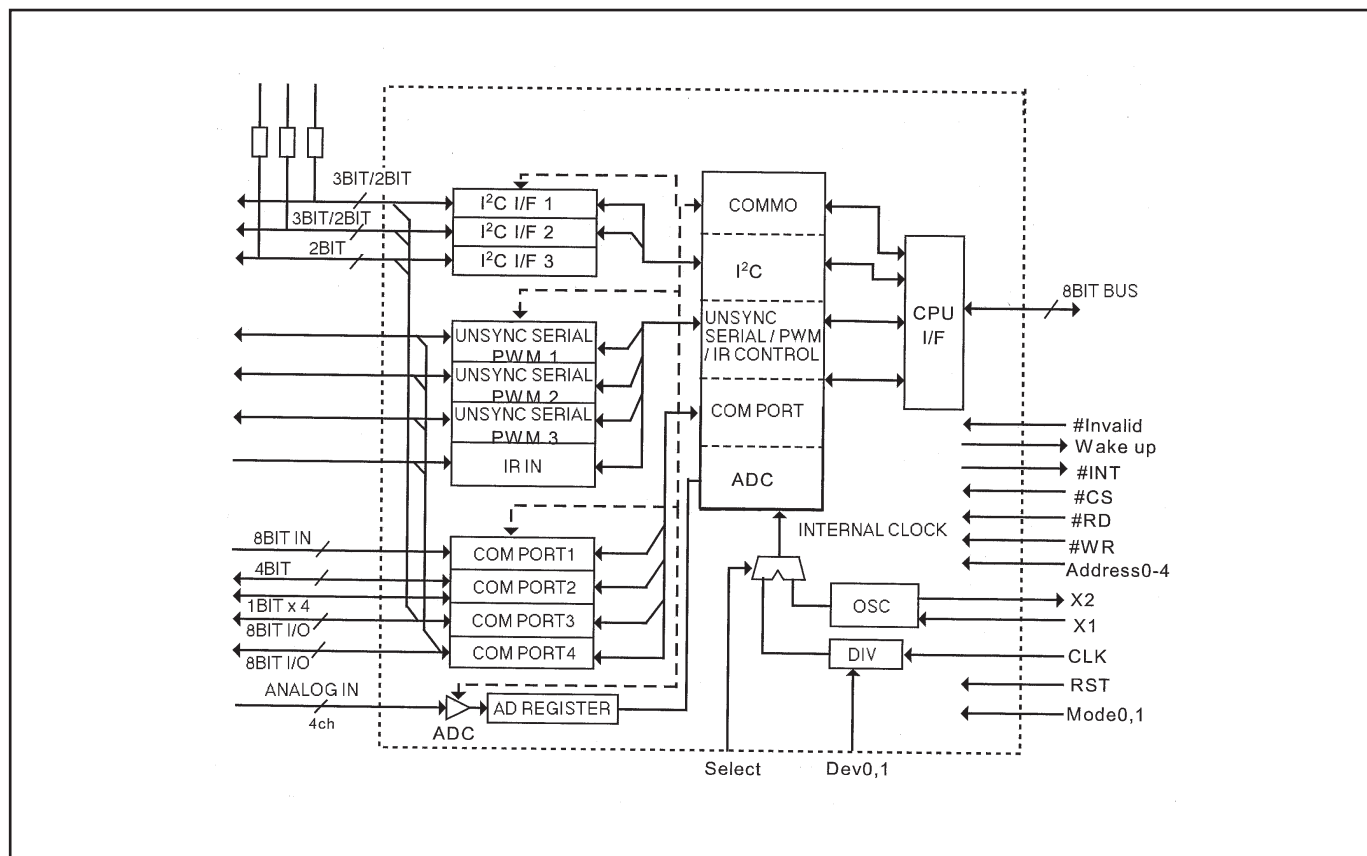




● PW190 <Scan Converter & System Control, IC301>



● TE7783 <Parallel I/O Expander, IC1801>



Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.
Components indicated by a Δ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR	CERAMIC	100P	K	50V	
					Rated Voltage
					Tolerance Symbols:
					Less than 10pF
					A : Not specified B : $\pm 0.1\text{pF}$ C : $\pm 0.25\text{pF}$
					D : $\pm 0.5\text{pF}$ E : $+0 -1\text{pF}$ F : $\pm 1\text{PF}$
					G : $\pm 2\text{pF}$ H : $+0.1 -0\text{pF}$ L : $+0 -0.1\text{pF}$
					R : $\pm 0.25 -0\text{pF}$ S : $+0 -0.25\text{pF}$
					More than 10pF
					A : Not specified B : $\pm 0.1\%$ C : $\pm 0.25\%$
					D : $\pm 0.5\%$ F : $\pm 1\%$ G : $\pm 2\%$
					H : $\pm 3\%$ J : $\pm 5\%$ K : $\pm 10\%$
					L : $\pm 15\%$ M : $\pm 20\%$ N : $\pm 30\%$
					P : $\pm 100-0\%$ Q : $\pm 30-10\%$ T : $\pm 50-10\%$
					U : $\pm 75-10\%$ V : $\pm 20-10\%$ W : $\pm 100-10\%$
					X : $\pm 40-20\%$ Y : $\pm 150-10\%$ Z : $\pm 80-20\%$
					Rated value: P=pico farad, U=micro farad

Material:

CERAMIC..... Ceramic
MT-PAPER..... Metallized Paper
POLYESTER..... Polyester
MT-POLYEST..... Metallized Polyester
POLYPRO..... Polypropylene
MT-POLYPRO..... Metallized Polypropylene
COMPO FILM..... Composite film
MT-COMPO..... Metallized Composite
STYRENE..... Styrene
TA-SOLID..... Tantalum Oxide Solid Electrolytic
AL-SOLID..... Aluminium Solid Electrolytic
ELECT..... Aluminum Foil Electrolytic
NP-ELECT..... Non-polarised Electrolytic
OS-SOLID..... Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID..... Polymerized Organic Semiconductive
DL-ELECT..... Double Layered Electrolytic
PPS-FILM..... Polyphenylene Sulfide Film
MT-PPS-FILM..... Metalized Polyphenylene Sulfide Film
MT-PEN-FILM..... Metalized Polyethylenenaphthalate Film
CAPACITOR..... Other

RESISTOR	CARBON	4.7K	J	A	1/4W	
						Rated Wattage
						Performance Symbols:
						A: General B: Non flammable Z: Low noise
						Other: Temperature coefficient
						T: $\pm 10\text{ppm}/^\circ\text{C}$ U: $\pm 25\text{ppm}/^\circ\text{C}$ C: $\pm 50\text{ppm}/^\circ\text{C}$
						D: $\pm 100\text{ppm}/^\circ\text{C}$ E: $\pm 200\text{ppm}/^\circ\text{C}$ F: $\pm 250\text{ppm}/^\circ\text{C}$
						G: $\pm 350\text{ppm}/^\circ\text{C}$ H: $\pm 1000\text{ppm}/^\circ\text{C}\pm 10\%$ W: $\pm 1200\text{ppm}/^\circ\text{C}\pm 10\%$
						Y: $\pm 1400\text{ppm}/^\circ\text{C}\pm 10\%$ J: $\pm 2000\text{ppm}/^\circ\text{C}\pm 10\%$ K: $\pm 2400\text{ppm}/^\circ\text{C}\pm 10\%$
						L: $\pm 2700\text{ppm}/^\circ\text{C}\pm 10\%$ M: $\pm 3000\text{ppm}/^\circ\text{C}\pm 10\%$ N: $\pm 3300\text{ppm}/^\circ\text{C}\pm 10\%$
						P: $\pm 3600\text{ppm}/^\circ\text{C}\pm 10\%$ Q: $\pm 3900\text{ppm}/^\circ\text{C}\pm 10\%$ R: $\pm 4200\text{ppm}/^\circ\text{C}\pm 10\%$
						S: $\pm 4300\text{ppm}/^\circ\text{C}\pm 10\%$ V: $\pm 4500\text{ppm}/^\circ\text{C}\pm 10\%$ X: $\pm 8000\text{ppm}/^\circ\text{C}\pm 10\%$
						Tolerance Symbols:
						A: $\pm 0.05\%$ B: $\pm 0.1\%$ C: $\pm 0.25\%$ D: $\pm 0.5\%$
						F: $\pm 1\%$ G: $\pm 2\%$ J: $\pm 5\%$ K: $\pm 10\%$
						M: $\pm 20\%$ P: $\pm 5-15\%$ Z: 0 ohm
						Rated value, ohms:
						K: 1,000, M: 1,000,000

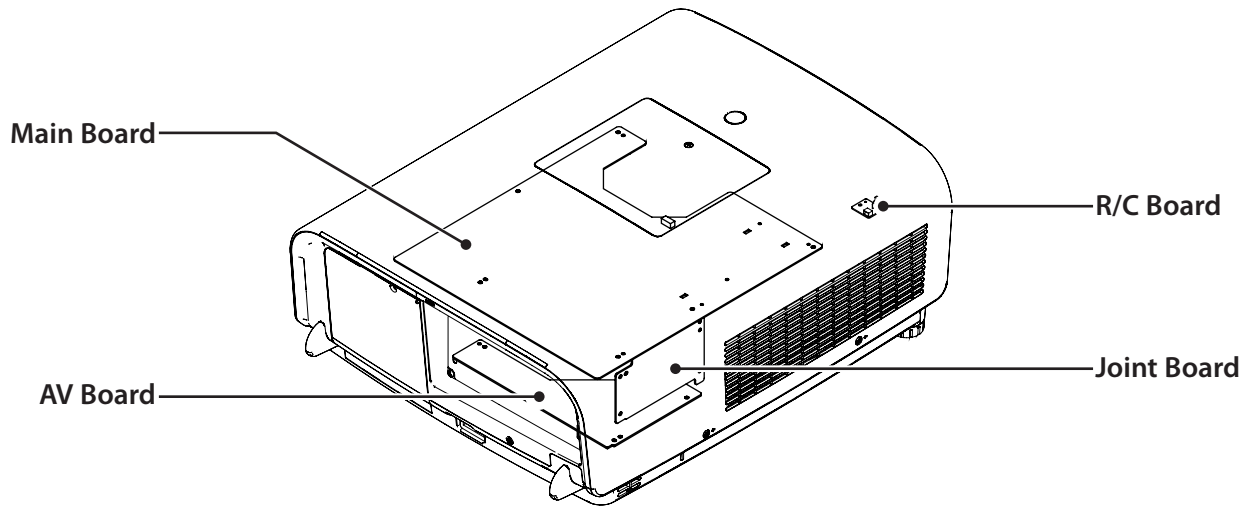
Material:

CARBON..... Carbon
MT-FILM..... Metal Film
OXIDE-MT..... Oxide Metal Film
SOLID..... Composition
MT-GLAZE..... Metal Glaze
WIRE WOUND... Wire Wound
CERAMIC RES.. Ceramic
FUSIBLE RES... Fusible
RESISTOR Other

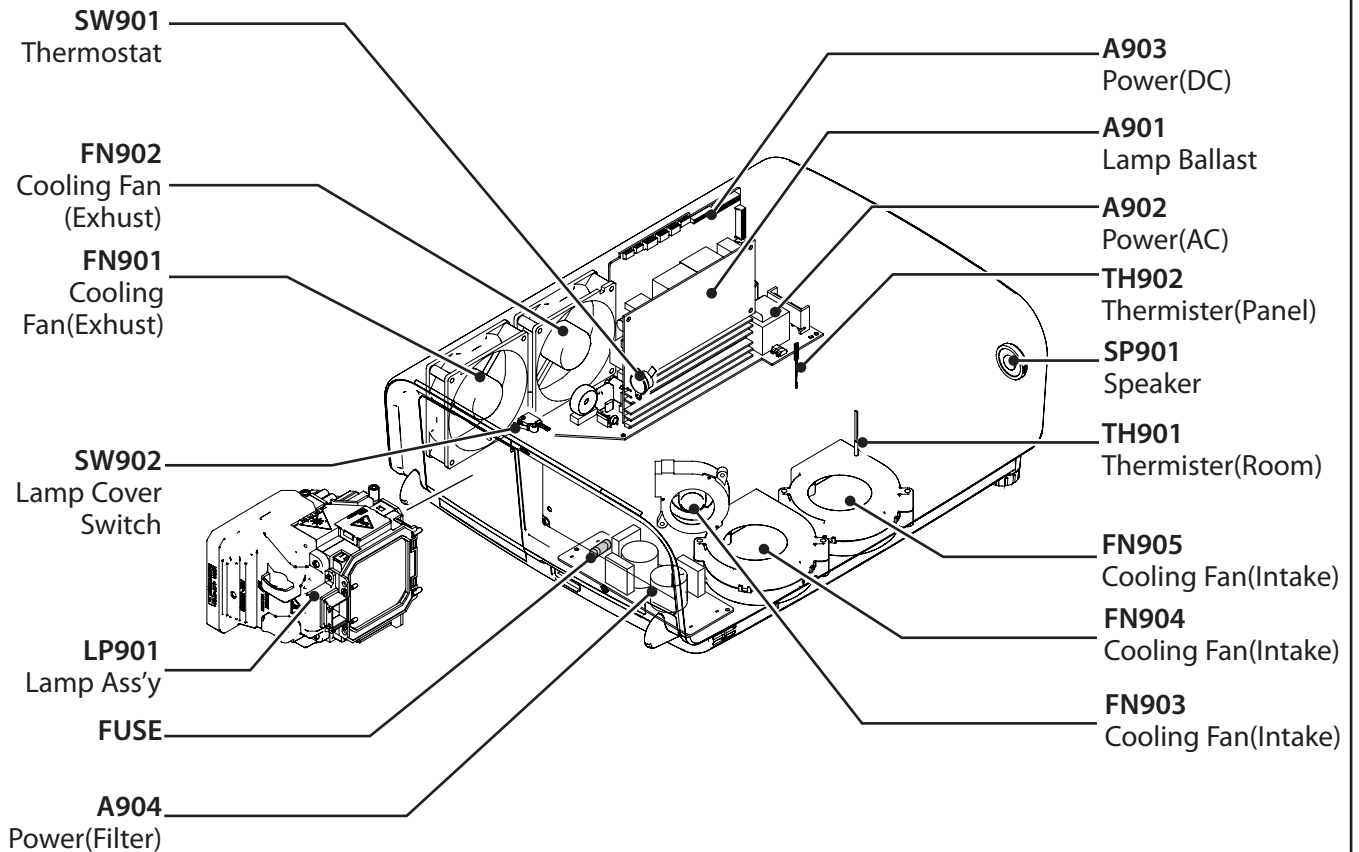
Electrical Parts List

Electrical Parts Location

● Assembled Boards



● Out Of Circuit Board



Electrical Parts List

Electrical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No. Part No. Description			Key No. Part No. Description		
ASSEMBLED BOARDS					
For CHASSIS No. MZ7-XT2500, MZ7-XT25L00					
△	910 330 0116	ASSY,PWB,MAIN .MZ7A	Q156	305 163 1615	TR 2SC2812N-L6-TB0
△	910 330 5067	ASSY,PWB,AV MZ7A		305 173 9816	TR 2SC3928A1R
△	910 330 5159	ASSY,PWB,NETWORK JOINT MZ		305 173 9915	TR 2SC3928A1S
△	910 330 5166	ASSY,PWB,R/C. FRONT MZ7A		305 134 5928	TR 2SA1037AK-T146-R
				305 147 2218	TR 2SA1037AK-S-T146
For CHASSIS No. KC6-XT2000, KC6-XT20L00				305 002 0311	TR 2SA1037K T146 R
△	610 333 2482	ASSY,PWB,MAIN .KC6A		305 002 0410	TR 2SA1037K T146 S
△	910 330 5067	ASSY,PWB,AV MZ7A		305 002 6729	TR 2SA1179-M6-TB
△	910 330 5159	ASSY,PWB,NETWORK JOINT MZ		305 002 6927	TR 2SA1179-M7-TB
△	910 330 5166	ASSY,PWB,R/C. FRONT MZ7A		305 163 1516	TR 2SA1179N-M6-TB
				305 173 9618	TR 2SA1235A1E
			Q158	305 173 9717	TR 2SA1235A1F
				305 134 5928	TR 2SA1037AK-T146-R
				305 147 2218	TR 2SA1037AK-S-T146
				305 002 0311	TR 2SA1037K T146 R
				305 002 0410	TR 2SA1037K T146 S
				305 002 6729	TR 2SA1179-M6-TB
				305 002 6927	TR 2SA1179-M7-TB
				305 163 1516	TR 2SA1179N-M6-TB
				305 173 9618	TR 2SA1235A1E
			Q161	305 173 9717	TR 2SA1235A1F
				305 134 5928	TR 2SA1037AK-T146-R
				305 147 2218	TR 2SA1037AK-S-T146
				305 002 0311	TR 2SA1037K T146 R
				305 002 0410	TR 2SA1037K T146 S
				305 002 6729	TR 2SA1179-M6-TB
				305 002 6927	TR 2SA1179-M7-TB
				305 163 1516	TR 2SA1179N-M6-TB
			Q166	305 173 9618	TR 2SA1235A1E
				305 173 9717	TR 2SA1235A1F
				305 134 5928	TR 2SA1037AK-T146-R
				305 147 2218	TR 2SA1037AK-S-T146
				305 002 0311	TR 2SA1037K T146 R
				305 002 0410	TR 2SA1037K T146 S
				305 002 6729	TR 2SA1179-M6-TB
				305 002 6927	TR 2SA1179-M7-TB
				305 163 1516	TR 2SA1179N-M6-TB
			Q171	305 173 9618	TR 2SA1235A1E
				305 173 9717	TR 2SA1235A1F
				305 134 5928	TR 2SA1037AK-T146-R
				305 147 2218	TR 2SA1037AK-S-T146
				305 002 0311	TR 2SA1037K T146 R
				305 002 0410	TR 2SA1037K T146 S
				305 002 6729	TR 2SA1179-M6-TB
				305 002 6927	TR 2SA1179-M7-TB
				305 163 1516	TR 2SA1179N-M6-TB
			Q176	305 173 9618	TR 2SA1235A1E
				305 173 9717	TR 2SA1235A1F
				305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
			Q181	305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
				305 014 4512	TR 2SC2412K T146 R
				305 014 4611	TR 2SC2412K T146 S
				305 015 8727	TR 2SC2812-L6-TB
				305 015 8925	TR 2SC2812-L7-TB
				305 163 1615	TR 2SC2812N-L6-TB0
			Q182	305 173 9816	TR 2SC3928A1R
				305 173 9915	TR 2SC3928A1S
				305 014 4512	TR 2SC2412K T146 R
OUT OF CIRCUIT BAORD					
L901	945 003 3835	CORE,FERRITE			
L902	945 003 3811	CORE,FERRITE			
LP901	610 330 7329	COMPL,OPTICAL LMP-MZ7A			
△ A901	945 085 8278	UNIT,BALLAST			
△ A902	945 087 1611	UNIT,POWER(AC)			
△ A903	945 087 1628	UNIT,POWER(DC)			
△ A904	945 087 1635	UNIT,POWER(FILTER)			
BLST&LMP	910 330 7474	CABLE,BALLAST MZ7A			
△ FN901	945 088 7049	MOTOR,FAN DC 3.36W			
△ FN902	945 088 7063	MOTOR,FAN DC 4.20W			
△ FN903	945 088 7025	MOTOR,BLW DC 1.92W			
△ FN904	945 088 7032	MOTOR,BLW DC 9.24W			
△ FN905	645 091 1439	MOTOR,BLW DC 9.24W			
SP901	945 078 6106	SPEAKER,8			
△ SW901	645 089 4879	THERMOSTATS			
SW902	645 089 4916	SWITCH,PUSH			
TH901	945 079 7775	SWITCH,THERMAL,THERMISTOR			
TH902	945 079 7768	SWITCH,THERMAL,THERMISTOR			
△ FUSE	645 090 3144	FUSE(250V,10A)			
For CHASSIS No. MZ7-XT2500, MZ7-XT25L00					
910 330 0116 ASSY,PWB,MAIN .MZ7A					
For CHASSIS No. KC6-XT2000, KC6-XT20L00					
610 333 2482 ASSY,PWB,MAIN .KC6A					
TRANSISTOR					
Q1011	305 014 4512	TR 2SC2412K T146 R			
	305 014 4611	TR 2SC2412K T146 S			
	305 015 8727	TR 2SC2812-L6-TB			
	305 015 8925	TR 2SC2812-L7-TB			
	305 163 1615	TR 2SC2812N-L6-TB0			
	305 173 9816	TR 2SC3928A1R			
	305 173 9915	TR 2SC3928A1S			
Q1061	305 014 4512	TR 2SC2412K T146 R			
	305 014 4611	TR 2SC2412K T146 S			
	305 015 8727	TR 2SC2812-L6-TB			
	305 015 8925	TR 2SC2812-L7-TB			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q183	305 014 4611	TR 2SC2412K T146 S	Q2858	305 173 9816	TR 2SC3928A1R
	305 015 8727	TR 2SC2812-L6-TB		305 173 9915	TR 2SC3928A1S
	305 015 8925	TR 2SC2812-L7-TB		305 134 5928	TR 2SA1037AK-T146-R
	305 163 1615	TR 2SC2812N-L6-TB0		305 147 2218	TR 2SA1037AK-S-T146
	305 173 9816	TR 2SC3928A1R		305 002 0311	TR 2SA1037K T146 R
	305 173 9915	TR 2SC3928A1S		305 002 0410	TR 2SA1037K T146 S
	305 014 4512	TR 2SC2412K T146 R		305 002 6729	TR 2SA1179-M6-TB
	305 014 4611	TR 2SC2412K T146 S		305 002 6927	TR 2SA1179-M7-TB
	305 015 8727	TR 2SC2812-L6-TB		305 163 1516	TR 2SA1179N-M6-TB
	305 015 8925	TR 2SC2812-L7-TB	Q3101	305 173 9618	TR 2SA1235A1E
Q2801	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9717	TR 2SA1235A1F
	305 173 9816	TR 2SC3928A1R		305 134 5928	TR 2SA1037AK-T146-R
	305 173 9915	TR 2SC3928A1S		305 147 2218	TR 2SA1037AK-S-T146
	305 014 4512	TR 2SC2412K T146 R		305 002 0311	TR 2SA1037K T146 R
	305 014 4611	TR 2SC2412K T146 S		305 002 0410	TR 2SA1037K T146 S
	305 015 8727	TR 2SC2812-L6-TB		305 002 6729	TR 2SA1179-M6-TB
	305 015 8925	TR 2SC2812-L7-TB		305 002 6927	TR 2SA1179-M7-TB
	305 163 1615	TR 2SC2812N-L6-TB0		305 163 1516	TR 2SA1179N-M6-TB
	305 173 9816	TR 2SC3928A1R		305 173 9618	TR 2SA1235A1E
	305 173 9915	TR 2SC3928A1S	Q3102	305 173 9717	TR 2SA1235A1F
Q2802	305 014 4512	TR 2SC2412K T146 R		305 134 5928	TR 2SA1037AK-T146-R
	305 014 4611	TR 2SC2412K T146 S		305 147 2218	TR 2SA1037AK-S-T146
	305 015 8727	TR 2SC2812-L6-TB		305 002 0311	TR 2SA1037K T146 R
	305 015 8925	TR 2SC2812-L7-TB		305 002 0410	TR 2SA1037K T146 S
	305 163 1615	TR 2SC2812N-L6-TB0		305 002 6729	TR 2SA1179-M6-TB
	305 173 9816	TR 2SC3928A1R		305 002 6927	TR 2SA1179-M7-TB
	305 173 9915	TR 2SC3928A1S		305 163 1516	TR 2SA1179N-M6-TB
	305 014 4512	TR 2SC2412K T146 R		305 173 9618	TR 2SA1235A1E
	305 014 4611	TR 2SC2412K T146 S		305 173 9717	TR 2SA1235A1F
	305 015 8727	TR 2SC2812-L6-TB	Q3103	305 014 4512	TR 2SC2412K T146 R
Q2851	305 015 8925	TR 2SC2812-L7-TB		305 014 4611	TR 2SC2412K T146 S
	305 163 1615	TR 2SC2812N-L6-TB0		305 015 8727	TR 2SC2812-L6-TB
	305 173 9816	TR 2SC3928A1R		305 015 8925	TR 2SC2812-L7-TB
	305 173 9915	TR 2SC3928A1S		305 163 1615	TR 2SC2812N-L6-TB0
	305 014 4512	TR 2SC2412K T146 R		305 173 9816	TR 2SC3928A1R
	305 014 4611	TR 2SC2412K T146 S		305 173 9915	TR 2SC3928A1S
	305 015 8727	TR 2SC2812-L6-TB		305 014 4512	TR 2SC2412K T146 R
	305 015 8925	TR 2SC2812-L7-TB		305 014 4611	TR 2SC2412K T146 S
	305 163 1615	TR 2SC2812N-L6-TB0		305 015 8727	TR 2SC2812-L6-TB
	305 173 9816	TR 2SC3928A1R	Q3104	305 015 8925	TR 2SC2812-L7-TB
Q2852	305 173 9915	TR 2SC3928A1S		305 163 1615	TR 2SC2812N-L6-TB0
	305 014 4512	TR 2SC2412K T146 R		305 173 9816	TR 2SC3928A1R
	305 014 4611	TR 2SC2412K T146 S		305 173 9915	TR 2SC3928A1S
	305 015 8727	TR 2SC2812-L6-TB		305 014 4512	TR 2SC2412K T146 R
	305 015 8925	TR 2SC2812-L7-TB		305 014 4611	TR 2SC2412K T146 S
	305 163 1615	TR 2SC2812N-L6-TB0		305 015 8727	TR 2SC2812-L6-TB
	305 173 9816	TR 2SC3928A1R		305 015 8925	TR 2SC2812-L7-TB
	305 173 9915	TR 2SC3928A1S		305 163 1615	TR 2SC2812N-L6-TB0
	305 014 4512	TR 2SC2412K T146 R		305 173 9816	TR 2SC3928A1R
	305 014 4611	TR 2SC2412K T146 S	Q3106	305 173 9915	TR 2SC3928A1S
Q2853	305 015 8727	TR 2SC2812-L6-TB		305 134 5928	TR 2SA1037AK-T146-R
	305 015 8925	TR 2SC2812-L7-TB		305 147 2218	TR 2SA1037AK-S-T146
	305 163 1615	TR 2SC2812N-L6-TB0		305 002 0311	TR 2SA1037K T146 R
	305 173 9816	TR 2SC3928A1R		305 002 0410	TR 2SA1037K T146 S
	305 173 9915	TR 2SC3928A1S		305 002 6729	TR 2SA1179-M6-TB
	305 014 4512	TR 2SC2412K T146 R		305 002 6927	TR 2SA1179-M7-TB
	305 014 4611	TR 2SC2412K T146 S		305 163 1516	TR 2SA1179N-M6-TB
	305 015 8727	TR 2SC2812-L6-TB		305 173 9618	TR 2SA1235A1E
	305 015 8925	TR 2SC2812-L7-TB		305 173 9717	TR 2SA1235A1F
	305 163 1615	TR 2SC2812N-L6-TB0	Q3107	305 134 5928	TR 2SA1037AK-T146-R
Q2854	305 173 9816	TR 2SC3928A1R		305 147 2218	TR 2SA1037AK-S-T146
	305 173 9915	TR 2SC3928A1S		305 002 0311	TR 2SA1037K T146 R
	305 014 4512	TR 2SC2412K T146 R		305 002 0410	TR 2SA1037K T146 S
	305 014 4611	TR 2SC2412K T146 S		305 002 6729	TR 2SA1179-M6-TB
	305 015 8727	TR 2SC2812-L6-TB		305 002 6927	TR 2SA1179-M7-TB
	305 015 8925	TR 2SC2812-L7-TB		305 163 1516	TR 2SA1179N-M6-TB
	305 163 1615	TR 2SC2812N-L6-TB0		305 173 9618	TR 2SA1235A1E
	305 173 9816	TR 2SC3928A1R		305 173 9717	TR 2SA1235A1F
	305 173 9915	TR 2SC3928A1S		305 191 5814	TR 3LN01C-TB-E
	305 014 4512	TR 2SC2412K T146 R	Q3802	305 191 5814	TR 3LN01C-TB-E
Q2856	305 014 4611	TR 2SC2412K T146 S		305 014 4512	TR 2SC2412K T146 R
	305 015 8727	TR 2SC2812-L6-TB		305 014 4611	TR 2SC2412K T146 S
	305 015 8925	TR 2SC2812-L7-TB		305 015 8727	TR 2SC2812-L6-TB
	305 163 1615	TR 2SC2812N-L6-TB0		305 015 8925	TR 2SC2812-L7-TB
	305 173 9816	TR 2SC3928A1R	Q4621		
	305 173 9915	TR 2SC3928A1S			
	305 014 4512	TR 2SC2412K T146 R			
	305 014 4611	TR 2SC2412K T146 S			
	305 015 8727	TR 2SC2812-L6-TB			
	305 015 8925	TR 2SC2812-L7-TB			
	305 163 1615	TR 2SC2812N-L6-TB0			
	305 173 9816	TR 2SC3928A1R			
	305 173 9915	TR 2SC3928A1S			
Q2857	305 014 4512	TR 2SC2412K T146 R			
	305 014 4611	TR 2SC2412K T146 S			
	305 015 8727	TR 2SC2812-L6-TB			
	305 015 8925	TR 2SC2812-L7-TB			
	305 163 1615	TR 2SC2812N-L6-TB0			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
Q4811	305 163 1615	TR 2SC2812N-L6-TB0	Q5301	305 163 1516	TR 2SA1179N-M6-TB
	305 173 9816	TR 2SC3928A1R		305 173 9618	TR 2SA1235A1E
	305 173 9915	TR 2SC3928A1S		305 173 9717	TR 2SA1235A1F
	305 014 4512	TR 2SC2412K T146 R		305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S		305 014 4611	TR 2SC2412K T146 S
Q4812	305 015 8727	TR 2SC2812-L6-TB	Q5302	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB		305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0		305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R		305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S		305 173 9915	TR 2SC3928A1S
Q5121	305 134 5928	TR 2SA1037AK-T146-R	Q5303	305 134 5928	TR 2SA1037AK-T146-R
	305 147 2218	TR 2SA1037AK-S-T146		305 147 2218	TR 2SA1037AK-S-T146
	305 002 0311	TR 2SA1037K T146 R		305 002 0311	TR 2SA1037K T146 R
	305 002 0410	TR 2SA1037K T146 S		305 002 0410	TR 2SA1037K T146 S
	305 002 6729	TR 2SA1179-M6-TB		305 002 6729	TR 2SA1179-M6-TB
Q5141	305 002 6927	TR 2SA1179-M7-TB	Q5304	305 002 6927	TR 2SA1179-M7-TB
	305 163 1516	TR 2SA1179N-M6-TB		305 163 1516	TR 2SA1179N-M6-TB
	305 173 9618	TR 2SA1235A1E		305 173 9618	TR 2SA1235A1E
	305 173 9717	TR 2SA1235A1F		305 173 9717	TR 2SA1235A1F
	305 014 4512	TR 2SC2412K T146 R		305 014 4512	TR 2SC2412K T146 R
Q5151	305 014 4611	TR 2SC2412K T146 S	Q5501	305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB		305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB		305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0		305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R		305 173 9816	TR 2SC3928A1R
Q5201	305 173 9915	TR 2SC3928A1S	Q5551	305 173 9915	TR 2SC3928A1S
	305 014 4512	TR 2SC2412K T146 R		305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S		305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB		305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB		305 015 8925	TR 2SC2812-L7-TB
Q5202	305 163 1615	TR 2SC2812N-L6-TB0	Q5621	305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R		305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S		305 173 9915	TR 2SC3928A1S
	305 014 4512	TR 2SC2412K T146 R		305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S		305 014 4611	TR 2SC2412K T146 S
Q5203	305 015 8727	TR 2SC2812-L6-TB	Q6501	305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB		305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0		305 163 1615	TR 2SC2812N-L6-TB0
	305 173 9816	TR 2SC3928A1R		305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S		305 173 9915	TR 2SC3928A1S
Q5204	305 014 4512	TR 2SC2412K T146 R	Q6541	305 014 4512	TR 2SC2412K T146 R
	305 014 4611	TR 2SC2412K T146 S		305 014 4611	TR 2SC2412K T146 S
	305 015 8727	TR 2SC2812-L6-TB		305 015 8727	TR 2SC2812-L6-TB
	305 015 8925	TR 2SC2812-L7-TB		305 015 8925	TR 2SC2812-L7-TB
	305 163 1615	TR 2SC2812N-L6-TB0		305 163 1615	TR 2SC2812N-L6-TB0
Q5204	305 173 9816	TR 2SC3928A1R	Q7201	305 173 9816	TR 2SC3928A1R
	305 173 9915	TR 2SC3928A1S		305 173 9915	TR 2SC3928A1S
	305 134 5928	TR 2SA1037AK-T146-R		305 014 4512	TR 2SC2412K T146 R
	305 147 2218	TR 2SA1037AK-S-T146			
	305 002 0311	TR 2SA1037K T146 R			
	305 002 0410	TR 2SA1037K T146 S			
	305 002 6729	TR 2SA1179-M6-TB			
	305 002 6927	TR 2SA1179-M7-TB			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
	305 014 4611	TR 2SC2412K T146 S	IC7821	310 337 0605	IC HD74LVC14T
	305 015 8727	TR 2SC2812-L6-TB	For CHASSIS NO. MZ7-Xt2500, MZ7-Xt25L00		
	305 015 8925	TR 2SC2812-L7-TB	IC801	410 621 5306	IC S29GL064A90TFIR30-0760
	305 163 1615	TR 2SC2812N-L6-TB0	For CHASSIS NO. KC6-Xt2000, KC6-Xt20L00		
	305 173 9816	TR 2SC3928A1R	IC801	410 630 9302	IC S29GL064A90TFIR30-0791
Q8111	305 173 9915	TR 2SC3928A1S			
	305 014 4512	TR 2SC2412K T146 R	IC8101	309 558 7213	IC 24C02CT-I/SNG
	305 014 4611	TR 2SC2412K T146 S	IC8121	310 479 4004	IC TC7WBD125AFK
	305 015 8727	TR 2SC2812-L6-TB	IC8131	309 400 7118	IC TC7W53FU-(TE12L)
	305 015 8925	TR 2SC2812-L7-TB	IC8141	309 400 7118	IC TC7W53FU-(TE12L)
	305 163 1615	TR 2SC2812N-L6-TB0	IC861	310 362 6504	IC TC74LCX541FT
	305 173 9816	TR 2SC3928A1R	IC8801	309 545 5710	IC XC6202P502M
	305 173 9915	TR 2SC3928A1S	IC8841	309 481 8615	IC LM76CHMX-5
Q861	305 014 4512	TR 2SC2412K T146 R	CAPACITOR		
	305 014 4611	TR 2SC2412K T146 S	C1001	303 409 3426	CERAMIC 0.1U K 16V
	305 015 8727	TR 2SC2812-L6-TB	C101	303 376 6311	CERAMIC 0.47U K 10V
	305 015 8925	TR 2SC2812-L7-TB	C102	303 376 6311	CERAMIC 0.47U K 10V
	305 163 1615	TR 2SC2812N-L6-TB0	C103	303 433 1112	CERAMIC 1U K 10V
	305 173 9816	TR 2SC3928A1R	C104	303 376 6311	CERAMIC 0.47U K 10V
	305 173 9915	TR 2SC3928A1S	C1041	303 409 3426	CERAMIC 0.1U K 16V
INTEGRATED CIRCUIT			C1051	303 409 3426	CERAMIC 0.1U K 16V
IC1041	310 517 6809	IC TC74LVX4053FT	C106	303 409 3426	CERAMIC 0.1U K 16V
IC1051	309 462 0327	IC 24LC21AT/SN	C107	303 155 4217	CERAMIC 15P J 50V
IC1301	310 616 3402	IC PST413A300NR	C108	303 409 3426	CERAMIC 0.1U K 16V
IC1351	310 479 4004	IC TC7WBD125AFK	C109	303 409 3426	CERAMIC 0.1U K 16V
IC1371	310 479 4004	IC TC7WBD125AFK	C1091	303 358 3215	CERAMIC 10U K 6.3V
IC1391	310 538 4907	IC 24LC64T-I/SNG		303 368 7319	CERAMIC 10U K 6.3V
IC1401	309 539 8918	IC PQ033EZ01ZP	C111	303 409 3426	CERAMIC 0.1U K 16V
IC1411	310 576 6406	IC PQ012FZ01ZPH	C112	303 409 3426	CERAMIC 0.1U K 16V
IC1801	309 671 7817	IC TE7783APF	C113	303 409 3426	CERAMIC 0.1U K 16V
	309 633 6117	IC TE7783PF	C114	303 409 3426	CERAMIC 0.1U K 16V
IC181	309 591 8611	IC BA50BC0FP	C116	303 409 3426	CERAMIC 0.1U K 16V
IC1821	309 482 7518	IC BA25BC0FP	C117	303 409 3426	CERAMIC 0.1U K 16V
IC1881	310 362 6504	IC TC74LCX541FT	C118	303 409 3426	CERAMIC 0.1U K 16V
IC2811	310 596 0002	IC 74LVC1G125GW/G,125	C119	303 409 3426	CERAMIC 0.1U K 16V
IC301	309 670 8419	IC PW190-10L	C121	303 394 1312	ELECT 100U M 6.3V
IC3801	309 652 0714	IC HIN202EIBNZ-T		303 387 4917	ELECT 100U M 6.3V
IC391	310 614 6207	IC TC7SZ14FU(TE85L,F)	C122	303 394 1312	ELECT 100U M 6.3V
IC4101	310 550 2202	IC EDS6416AHTA-75-E		303 387 4917	ELECT 100U M 6.3V
IC4131	309 539 8918	IC PQ033EZ01ZP	C1301	303 398 4111	ELECT 47U M 16V
IC4141	309 583 8117	IC SI-3018LSA-TL		303 387 6515	ELECT 47U M 16V
IC4151	309 539 8918	IC PQ033EZ01ZP	C1302	303 409 3426	CERAMIC 0.1U K 16V
IC4161	309 583 8117	IC SI-3018LSA-TL	C1303	303 409 3426	CERAMIC 0.1U K 16V
IC4801	309 464 1411	IC TC74ACT14FT	C1304	303 441 9810	CERAMIC 0.01U K 50V
IC4891	309 583 7417	IC BA50BC0WFP-E2	C1306	303 276 1317	CERAMIC 1000P K 50V
IC5101	309 497 6315	IC BA09FP-E2	C131	303 383 5215	CERAMIC 4.7U K 6.3V
IC5111	309 673 6313	IC TA4805AF	C132	303 383 5215	CERAMIC 4.7U K 6.3V
IC5121	309 594 1916	IC LM4889MM	C133	303 383 5215	CERAMIC 4.7U K 6.3V
IC5201	309 530 7217	IC AN5870SB-E1V	C1351	303 409 3426	CERAMIC 0.1U K 16V
IC5202	309 536 5514	IC AD8074ARUZ-REEL	C136	303 383 5215	CERAMIC 4.7U K 6.3V
IC5211	309 400 7118	IC TC7W53FU-(TE12L)	C137	303 376 6311	CERAMIC 0.47U K 10V
IC5212	309 400 7118	IC TC7W53FU-(TE12L)	C1371	303 409 3426	CERAMIC 0.1U K 16V
IC5251	309 605 3212	IC BAJ2CC0FP	C138	303 441 9810	CERAMIC 0.01U K 50V
IC5321	309 484 2016	IC BA7078AF-E2	C1391	303 409 3426	CERAMIC 0.1U K 16V
IC5341	310 471 9908	IC SN74AHC2G14HDCT3	C1402	303 409 3426	CERAMIC 0.1U K 16V
IC5501	309 362 1127	IC BA6287F	C1403	303 394 1312	ELECT 100U M 6.3V
IC5551	309 362 1127	IC BA6287F		303 387 4917	ELECT 100U M 6.3V
IC5601	309 567 3213	IC FA7711V-TE1	C141	303 383 5215	CERAMIC 4.7U K 6.3V
IC5691	309 591 8611	IC BA50BC0FP	C1412	303 409 3426	CERAMIC 0.1U K 16V
IC6501	309 537 6213	IC BA6920FP-YE2	C1416	303 394 1312	ELECT 100U M 6.3V
IC6531	309 537 6213	IC BA6920FP-YE2		303 387 4917	ELECT 100U M 6.3V
IC6561	309 400 7118	IC TC7W53FU-(TE12L)	C1417	303 409 3426	CERAMIC 0.1U K 16V
IC7201	310 605 1709	IC XC3550-4TQG144C	C142	303 376 6311	CERAMIC 0.47U K 10V
IC7271	309 534 1716	IC SI-3025LSA-TL	C143	303 376 6311	CERAMIC 0.47U K 10V
IC7281	309 670 5418	IC SI-3010KM	C146	303 372 7510	CERAMIC 2.2U K 6.3V
IC7801	309 431 4424	IC M62334FP-DF5Q			

Electrical Parts List

Key No. Part No. Description					Key No. Part No. Description				
C147	303 372 7510	CERAMIC	2.2U K	6.3V		303 424 1510	ELECT	10.0U M	25V
C148	303 372 7510	CERAMIC	2.2U K	6.3V	C2534	303 409 3426	CERAMIC	0.1U K	16V
C151	303 409 3426	CERAMIC	0.1U K	16V	C2535	303 401 3810	ELECT	10U M	25V
C156	303 409 3426	CERAMIC	0.1U K	16V		303 424 1510	ELECT	10.0U M	25V
C161	303 409 3426	CERAMIC	0.1U K	16V	C2536	303 367 0410	CERAMIC	0.1U K	50V
C166	303 409 3426	CERAMIC	0.1U K	16V	C2537	303 367 0410	CERAMIC	0.1U K	50V
C171	303 409 3426	CERAMIC	0.1U K	16V	C2538	303 135 0710	CERAMIC	1U K	25V
C1801	303 409 3426	CERAMIC	0.1U K	16V	C2539	303 409 3426	CERAMIC	0.1U K	16V
C1803	303 409 3426	CERAMIC	0.1U K	16V	C2541	303 409 3426	CERAMIC	0.1U K	16V
C1804	303 409 3426	CERAMIC	0.1U K	16V	C2542	303 433 1112	CERAMIC	1U K	10V
C1806	303 381 5613	ELECT	220U M	16V	C2543	303 367 0410	CERAMIC	0.1U K	50V
	303 423 8916	ELECT	220U M	16V	C2544	303 401 3810	ELECT	10U M	25V
C1808	303 409 3426	CERAMIC	0.1U K	16V		303 424 1510	ELECT	10.0U M	25V
C1809	303 409 3426	CERAMIC	0.1U K	16V	C2564	303 409 3426	CERAMIC	0.1U K	16V
C181	303 409 3426	CERAMIC	0.1U K	16V	C2565	303 401 3810	ELECT	10U M	25V
C1812	303 409 3426	CERAMIC	0.1U K	16V		303 424 1510	ELECT	10.0U M	25V
C1813	303 391 5115	ELECT	100U M	16V	C2566	303 367 0410	CERAMIC	0.1U K	50V
	303 296 9515	ELECT	100U M	16V	C2567	303 367 0410	CERAMIC	0.1U K	50V
C1816	303 409 3426	CERAMIC	0.1U K	16V	C2568	303 135 0710	CERAMIC	1U K	25V
C1817	303 409 3426	CERAMIC	0.1U K	16V	C2569	303 409 3426	CERAMIC	0.1U K	16V
C1818	303 409 3426	CERAMIC	0.1U K	16V	C2571	303 409 3426	CERAMIC	0.1U K	16V
C1819	303 409 3426	CERAMIC	0.1U K	16V	C2572	303 433 1112	CERAMIC	1U K	10V
C182	303 379 0217	POS-SOLID	68U M	6.3V	C2573	303 367 0410	CERAMIC	0.1U K	50V
C1821	303 409 3426	CERAMIC	0.1U K	16V	C2574	303 401 3810	ELECT	10U M	25V
C1822	303 409 3426	CERAMIC	0.1U K	16V		303 424 1510	ELECT	10.0U M	25V
C1823	303 409 3426	CERAMIC	0.1U K	16V	C2801	303 409 3426	CERAMIC	0.1U K	16V
C1827	303 409 3426	CERAMIC	0.1U K	16V	C2811	303 409 3426	CERAMIC	0.1U K	16V
C1828	303 409 3426	CERAMIC	0.1U K	16V	C2851	303 409 3426	CERAMIC	0.1U K	16V
C1829	303 409 3426	CERAMIC	0.1U K	16V	C2852	303 409 3426	CERAMIC	0.1U K	16V
C1831	303 276 1317	CERAMIC	1000P K	50V	C2853	303 409 3426	CERAMIC	0.1U K	16V
C1832	303 276 2819	CERAMIC	18P J	50V	C2854	303 409 3426	CERAMIC	0.1U K	16V
C1833	303 279 2915	CERAMIC	6P D	50V	C2856	303 409 3426	CERAMIC	0.1U K	16V
C1834	303 433 1112	CERAMIC	1U K	10V	C2857	303 433 1112	CERAMIC	1U K	10V
C1836	303 433 1112	CERAMIC	1U K	10V	C301	303 409 3426	CERAMIC	0.1U K	16V
C1837	303 433 1112	CERAMIC	1U K	10V	C302	303 409 3426	CERAMIC	0.1U K	16V
C1838	303 433 1112	CERAMIC	1U K	10V	C303	303 409 3426	CERAMIC	0.1U K	16V
C1839	303 433 1112	CERAMIC	1U K	10V	C304	303 409 3426	CERAMIC	0.1U K	16V
C1841	303 433 1112	CERAMIC	1U K	10V	C306	303 409 3426	CERAMIC	0.1U K	16V
C1881	303 409 3426	CERAMIC	0.1U K	16V	C307	303 409 3426	CERAMIC	0.1U K	16V
C1905	303 409 3426	CERAMIC	0.1U K	16V	C308	303 409 3426	CERAMIC	0.1U K	16V
C1906	303 409 3426	CERAMIC	0.1U K	16V	C309	303 409 3426	CERAMIC	0.1U K	16V
C1907	303 409 3426	CERAMIC	0.1U K	16V	C3101	303 409 3426	CERAMIC	0.1U K	16V
C1908	303 409 3426	CERAMIC	0.1U K	16V	C3102	303 409 3426	CERAMIC	0.1U K	16V
C1909	303 409 3426	CERAMIC	0.1U K	16V	C3103	303 409 3426	CERAMIC	0.1U K	16V
C1910	303 409 3426	CERAMIC	0.1U K	16V	C3104	303 398 4111	ELECT	47U M	16V
C1911	303 409 3426	CERAMIC	0.1U K	16V		303 387 6515	ELECT	47U M	16V
C1912	303 409 3426	CERAMIC	0.1U K	16V	C3106	303 398 4111	ELECT	47U M	16V
C1913	303 409 3426	CERAMIC	0.1U K	16V		303 387 6515	ELECT	47U M	16V
C1914	303 409 3426	CERAMIC	0.1U K	16V	C3107	303 398 4111	ELECT	47U M	16V
C1917	303 409 3426	CERAMIC	0.1U K	16V		303 387 6515	ELECT	47U M	16V
C1918	303 409 3426	CERAMIC	0.1U K	16V	C3108	303 398 4111	ELECT	47U M	16V
C1919	303 409 3426	CERAMIC	0.1U K	16V		303 387 6515	ELECT	47U M	16V
C1926	303 409 3426	CERAMIC	0.1U K	16V	C3109	303 398 4111	ELECT	47U M	16V
C1927	303 409 3426	CERAMIC	0.1U K	16V		303 387 6515	ELECT	47U M	16V
C1928	303 409 3426	CERAMIC	0.1U K	16V	C311	303 409 3426	CERAMIC	0.1U K	16V
C1929	303 409 3426	CERAMIC	0.1U K	16V	C3111	303 409 3426	CERAMIC	0.1U K	16V
C2504	303 409 3426	CERAMIC	0.1U K	16V	C3112	303 409 3426	CERAMIC	0.1U K	16V
C2505	303 401 3810	ELECT	10U M	25V	C3113	303 409 3426	CERAMIC	0.1U K	16V
	303 424 1510	ELECT	10.0U M	25V	C3114	303 409 3426	CERAMIC	0.1U K	16V
C2506	303 367 0410	CERAMIC	0.1U K	50V	C3116	303 376 6311	CERAMIC	0.47U K	10V
C2507	303 367 0410	CERAMIC	0.1U K	50V	C3117	303 376 6311	CERAMIC	0.47U K	10V
C2508	303 135 0710	CERAMIC	1U K	25V	C3118	303 376 6311	CERAMIC	0.47U K	10V
C2509	303 409 3426	CERAMIC	0.1U K	16V	C3119	303 376 6311	CERAMIC	0.47U K	10V
C2511	303 409 3426	CERAMIC	0.1U K	16V	C312	303 409 3426	CERAMIC	0.1U K	16V
C2512	303 433 1112	CERAMIC	1U K	10V	C3121	303 409 3426	CERAMIC	0.1U K	16V
C2513	303 367 0410	CERAMIC	0.1U K	50V	C3122	303 409 3426	CERAMIC	0.1U K	16V
C2514	303 401 3810	ELECT	10U M	25V	C3123	303 409 3426	CERAMIC	0.1U K	16V

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Key No. Part No. Description					Key No. Part No. Description				
C3124	303 409 3426	CERAMIC	0.1U K	16V	C327	303 409 3426	CERAMIC	0.1U K	16V
C3126	303 409 3426	CERAMIC	0.1U K	16V	C328	303 409 3426	CERAMIC	0.1U K	16V
C3127	303 409 3426	CERAMIC	0.1U K	16V	C329	303 409 3426	CERAMIC	0.1U K	16V
C3128	303 409 3426	CERAMIC	0.1U K	16V	C331	303 409 3426	CERAMIC	0.1U K	16V
C3129	303 409 3426	CERAMIC	0.1U K	16V	C332	303 409 3426	CERAMIC	0.1U K	16V
C313	303 409 3426	CERAMIC	0.1U K	16V	C333	303 409 3426	CERAMIC	0.1U K	16V
C3131	303 409 3426	CERAMIC	0.1U K	16V	C334	303 409 3426	CERAMIC	0.1U K	16V
C3132	303 409 3426	CERAMIC	0.1U K	16V	C336	303 409 3426	CERAMIC	0.1U K	16V
C3133	303 409 3426	CERAMIC	0.1U K	16V	C337	303 409 3426	CERAMIC	0.1U K	16V
C3134	303 409 3426	CERAMIC	0.1U K	16V	C338	303 409 3426	CERAMIC	0.1U K	16V
C3136	303 409 3426	CERAMIC	0.1U K	16V	C339	303 409 3426	CERAMIC	0.1U K	16V
C3137	303 409 3426	CERAMIC	0.1U K	16V	C341	303 409 3426	CERAMIC	0.1U K	16V
C3138	303 376 6311	CERAMIC	0.47U K	10V	C342	303 276 1911	CERAMIC	22P J	50V
C3139	303 376 6311	CERAMIC	0.47U K	10V	C343	303 276 1911	CERAMIC	22P J	50V
C314	303 409 3426	CERAMIC	0.1U K	16V	C346	303 409 3426	CERAMIC	0.1U K	16V
C3141	303 376 6311	CERAMIC	0.47U K	10V	C347	303 409 3426	CERAMIC	0.1U K	16V
C3142	303 376 6311	CERAMIC	0.47U K	10V	C348	303 409 3426	CERAMIC	0.1U K	16V
C3143	303 376 6311	CERAMIC	0.47U K	10V	C3501	303 409 3426	CERAMIC	0.1U K	16V
C3144	303 376 6311	CERAMIC	0.47U K	10V	C3502	303 367 0410	CERAMIC	0.1U K	50V
C3145	303 409 3426	CERAMIC	0.1U K	16V	C3503	303 367 0410	CERAMIC	0.1U K	50V
C3146	303 376 6311	CERAMIC	0.47U K	10V	C3504	303 409 3426	CERAMIC	0.1U K	16V
C3147	303 376 6311	CERAMIC	0.47U K	10V	C3506	303 391 5115	ELECT	100U M	16V
C3148	303 376 6311	CERAMIC	0.47U K	10V		303 296 9515	ELECT	100U M	16V
C3149	303 376 6311	CERAMIC	0.47U K	10V	C3508	303 401 3810	ELECT	10U M	25V
C3151	303 376 6311	CERAMIC	0.47U K	10V		303 424 1510	ELECT	10.0U M	25V
C3152	303 376 6311	CERAMIC	0.47U K	10V	C3509	303 135 0710	CERAMIC	1U K	25V
C3153	303 376 6311	CERAMIC	0.47U K	10V	C351	303 409 3426	CERAMIC	0.1U K	16V
C3154	303 376 6311	CERAMIC	0.47U K	10V	C3511	303 276 3113	CERAMIC	33P J	50V
C3156	303 376 6311	CERAMIC	0.47U K	10V	C3512	303 276 3113	CERAMIC	33P J	50V
C3157	303 376 6311	CERAMIC	0.47U K	10V	C3513	303 276 3113	CERAMIC	33P J	50V
C3158	303 376 6311	CERAMIC	0.47U K	10V	C3514	303 276 3113	CERAMIC	33P J	50V
C3159	303 376 6311	CERAMIC	0.47U K	10V	C3516	303 276 3113	CERAMIC	33P J	50V
C316	303 409 3426	CERAMIC	0.1U K	16V	C3517	303 276 3113	CERAMIC	33P J	50V
C3162	303 376 6311	CERAMIC	0.47U K	10V	C3518	303 276 3113	CERAMIC	33P J	50V
C3163	303 376 6311	CERAMIC	0.47U K	10V	C3519	303 276 3113	CERAMIC	33P J	50V
C3164	303 376 6311	CERAMIC	0.47U K	10V	C352	303 409 3426	CERAMIC	0.1U K	16V
C3166	303 376 6311	CERAMIC	0.47U K	10V	C3521	303 276 3113	CERAMIC	33P J	50V
C3167	303 376 6311	CERAMIC	0.47U K	10V	C3522	303 276 3113	CERAMIC	33P J	50V
C3168	303 376 6311	CERAMIC	0.47U K	10V	C3523	303 276 3113	CERAMIC	33P J	50V
C3169	303 376 6311	CERAMIC	0.47U K	10V	C3524	303 276 3113	CERAMIC	33P J	50V
C317	303 409 3426	CERAMIC	0.1U K	16V	C3526	303 276 3113	CERAMIC	33P J	50V
C3171	303 376 6311	CERAMIC	0.47U K	10V	C3527	303 276 3113	CERAMIC	33P J	50V
C3172	303 376 6311	CERAMIC	0.47U K	10V	C3528	303 276 3113	CERAMIC	33P J	50V
C3173	303 376 6311	CERAMIC	0.47U K	10V	C353	303 409 3426	CERAMIC	0.1U K	16V
C3174	303 376 6311	CERAMIC	0.47U K	10V	C3531	303 409 3426	CERAMIC	0.1U K	16V
C3176	303 376 6311	CERAMIC	0.47U K	10V	C3532	303 367 0410	CERAMIC	0.1U K	50V
C3177	303 376 6311	CERAMIC	0.47U K	10V	C3533	303 367 0410	CERAMIC	0.1U K	50V
C3178	303 409 3426	CERAMIC	0.1U K	16V	C3534	303 409 3426	CERAMIC	0.1U K	16V
C3179	303 409 3426	CERAMIC	0.1U K	16V	C3536	303 391 5115	ELECT	100U M	16V
C318	303 409 3426	CERAMIC	0.1U K	16V		303 296 9515	ELECT	100U M	16V
C3181	303 409 3426	CERAMIC	0.1U K	16V	C3538	303 401 3810	ELECT	10U M	25V
C3182	303 409 3426	CERAMIC	0.1U K	16V		303 424 1510	ELECT	10.0U M	25V
C3183	303 409 3426	CERAMIC	0.1U K	16V	C3539	303 135 0710	CERAMIC	1U K	25V
C3184	303 398 4111	ELECT	47U M	16V	C354	303 409 3426	CERAMIC	0.1U K	16V
	303 387 6515	ELECT	47U M	16V	C3541	303 276 3113	CERAMIC	33P J	50V
C3186	303 398 4111	ELECT	47U M	16V	C3542	303 276 3113	CERAMIC	33P J	50V
	303 387 6515	ELECT	47U M	16V	C3543	303 276 3113	CERAMIC	33P J	50V
C3187	303 409 3426	CERAMIC	0.1U K	16V	C3544	303 276 3113	CERAMIC	33P J	50V
C3188	303 394 1312	ELECT	100U M	6.3V	C3546	303 276 3113	CERAMIC	33P J	50V
	303 387 4917	ELECT	100U M	6.3V	C3547	303 276 3113	CERAMIC	33P J	50V
C3189	303 433 1112	CERAMIC	1U K	10V	C3548	303 276 3113	CERAMIC	33P J	50V
C319	303 409 3426	CERAMIC	0.1U K	16V	C3549	303 276 3113	CERAMIC	33P J	50V
C321	303 409 3426	CERAMIC	0.1U K	16V	C3551	303 276 3113	CERAMIC	33P J	50V
C322	303 409 3426	CERAMIC	0.1U K	16V	C3552	303 276 3113	CERAMIC	33P J	50V
C323	303 409 3426	CERAMIC	0.1U K	16V	C3553	303 276 3113	CERAMIC	33P J	50V
C324	303 409 3426	CERAMIC	0.1U K	16V	C3554	303 276 3113	CERAMIC	33P J	50V
C326	303 409 3426	CERAMIC	0.1U K	16V	C3556	303 276 3113	CERAMIC	33P J	50V

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Key No. Part No. Description					Key No. Part No. Description				
C3557	303 276 3113	CERAMIC	33P J	50V	C411	303 409 3426	CERAMIC	0.1U K	16V
C3558	303 276 3113	CERAMIC	33P J	50V	C4111	303 409 3426	CERAMIC	0.1U K	16V
C356	303 409 3426	CERAMIC	0.1U K	16V	C412	303 409 3426	CERAMIC	0.1U K	16V
C3561	303 409 3426	CERAMIC	0.1U K	16V	C413	303 409 3426	CERAMIC	0.1U K	16V
C3562	303 367 0410	CERAMIC	0.1U K	50V	C4131	303 409 3426	CERAMIC	0.1U K	16V
C3563	303 367 0410	CERAMIC	0.1U K	50V	C4132	303 394 1312	ELECT	100U M	6.3V
C3564	303 409 3426	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
C3566	303 391 5115	ELECT	100U M	16V	C4133	303 433 1112	CERAMIC	1U K	10V
	303 296 9515	ELECT	100U M	16V	C414	303 409 3426	CERAMIC	0.1U K	16V
C3568	303 401 3810	ELECT	10U M	25V	C4141	303 409 3426	CERAMIC	0.1U K	16V
	303 424 1510	ELECT	10.0U M	25V	C4142	303 409 3426	CERAMIC	0.1U K	16V
C3569	303 135 0710	CERAMIC	1U K	25V	C4143	303 394 1312	ELECT	100U M	6.3V
C357	303 409 3426	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
C3571	303 276 3113	CERAMIC	33P J	50V	C4151	303 409 3426	CERAMIC	0.1U K	16V
C3572	303 276 3113	CERAMIC	33P J	50V	C4152	303 394 1312	ELECT	100U M	6.3V
C3573	303 276 3113	CERAMIC	33P J	50V		303 387 4917	ELECT	100U M	6.3V
C3574	303 276 3113	CERAMIC	33P J	50V	C4153	303 433 1112	CERAMIC	1U K	10V
C3576	303 276 3113	CERAMIC	33P J	50V	C416	303 409 3426	CERAMIC	0.1U K	16V
C3577	303 276 3113	CERAMIC	33P J	50V	C4161	303 409 3426	CERAMIC	0.1U K	16V
C3578	303 276 3113	CERAMIC	33P J	50V	C4162	303 409 3426	CERAMIC	0.1U K	16V
C3579	303 276 3113	CERAMIC	33P J	50V	C4163	303 394 1312	ELECT	100U M	6.3V
C358	303 409 3426	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
C3581	303 276 3113	CERAMIC	33P J	50V	C417	303 409 3426	CERAMIC	0.1U K	16V
C3582	303 276 3113	CERAMIC	33P J	50V	C4171	303 409 3426	CERAMIC	0.1U K	16V
C3583	303 276 3113	CERAMIC	33P J	50V	C4172	303 394 1312	ELECT	100U M	6.3V
C3584	303 276 3113	CERAMIC	33P J	50V		303 387 4917	ELECT	100U M	6.3V
C3586	303 276 3113	CERAMIC	33P J	50V	C4173	303 409 3426	CERAMIC	0.1U K	16V
C3587	303 276 3113	CERAMIC	33P J	50V	C4174	303 394 1312	ELECT	100U M	6.3V
C3588	303 276 3113	CERAMIC	33P J	50V		303 387 4917	ELECT	100U M	6.3V
C361	303 409 3426	CERAMIC	0.1U K	16V	C4176	303 409 3426	CERAMIC	0.1U K	16V
C362	303 409 3426	CERAMIC	0.1U K	16V	C4177	303 394 1312	ELECT	100U M	6.3V
C363	303 409 3426	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
C364	303 409 3426	CERAMIC	0.1U K	16V	C4178	303 409 3426	CERAMIC	0.1U K	16V
C365	303 409 3426	CERAMIC	0.1U K	16V	C4179	303 394 1312	ELECT	100U M	6.3V
C366	303 409 3426	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
C367	303 409 3426	CERAMIC	0.1U K	16V	C4181	303 409 3426	CERAMIC	0.1U K	16V
C368	303 409 3426	CERAMIC	0.1U K	16V	C4182	303 394 1312	ELECT	100U M	6.3V
C371	303 409 3426	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
C372	303 409 3426	CERAMIC	0.1U K	16V	C4183	303 409 3426	CERAMIC	0.1U K	16V
C373	303 409 3426	CERAMIC	0.1U K	16V	C4184	303 394 1312	ELECT	100U M	6.3V
C3801	303 372 7510	CERAMIC	2.2U K	6.3V		303 387 4917	ELECT	100U M	6.3V
C3802	303 372 7510	CERAMIC	2.2U K	6.3V	C4186	303 409 3426	CERAMIC	0.1U K	16V
C3803	303 372 7510	CERAMIC	2.2U K	6.3V	C4187	303 394 1312	ELECT	100U M	6.3V
C3804	303 372 7510	CERAMIC	2.2U K	6.3V		303 387 4917	ELECT	100U M	6.3V
C3806	303 433 1112	CERAMIC	1U K	10V	C421	303 409 3426	CERAMIC	0.1U K	16V
C381	303 442 0519	CERAMIC	0.068U K	16V	C422	303 409 3426	CERAMIC	0.1U K	16V
C382	303 442 0519	CERAMIC	0.068U K	16V	C423	303 409 3426	CERAMIC	0.1U K	16V
C383	303 441 9810	CERAMIC	0.01U K	50V	C424	303 409 3426	CERAMIC	0.1U K	16V
C384	303 442 0519	CERAMIC	0.068U K	16V	C426	303 409 3426	CERAMIC	0.1U K	16V
C386	303 441 9810	CERAMIC	0.01U K	50V	C427	303 409 3426	CERAMIC	0.1U K	16V
C391	303 409 3426	CERAMIC	0.1U K	16V	C431	303 409 3426	CERAMIC	0.1U K	16V
C392TM	303 367 0410	CERAMIC	0.1U K	50V	C432	303 409 3426	CERAMIC	0.1U K	16V
C401	303 409 3426	CERAMIC	0.1U K	16V	C433	303 409 3426	CERAMIC	0.1U K	16V
C402	303 409 3426	CERAMIC	0.1U K	16V	C434	303 409 3426	CERAMIC	0.1U K	16V
C403	303 409 3426	CERAMIC	0.1U K	16V	C436	303 409 3426	CERAMIC	0.1U K	16V
C404	303 409 3426	CERAMIC	0.1U K	16V	C437	303 409 3426	CERAMIC	0.1U K	16V
C406	303 409 3426	CERAMIC	0.1U K	16V	C438	303 394 1312	ELECT	100U M	6.3V
C407	303 409 3426	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
C4101	303 394 1312	ELECT	100U M	6.3V	C439	303 433 1112	CERAMIC	1U K	10V
	303 387 4917	ELECT	100U M	6.3V	C4601	303 394 1312	ELECT	100U M	6.3V
C4102	303 409 3426	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
C4103	303 409 3426	CERAMIC	0.1U K	16V	C4602	303 391 5115	ELECT	100U M	16V
C4104	303 409 3426	CERAMIC	0.1U K	16V		303 296 9515	ELECT	100U M	16V
C4106	303 409 3426	CERAMIC	0.1U K	16V	C4603	303 391 5115	ELECT	100U M	16V
C4107	303 409 3426	CERAMIC	0.1U K	16V		303 296 9515	ELECT	100U M	16V
C4108	303 409 3426	CERAMIC	0.1U K	16V	C4604	303 391 5115	ELECT	100U M	16V
C4109	303 409 3426	CERAMIC	0.1U K	16V		303 296 9515	ELECT	100U M	16V

Electrical Parts List

Key No. Part No. Description					Key No. Part No. Description				
C4606	303 391 5115	ELECT	100U M	16V		303 423 8916	ELECT	220U M	16V
	303 296 9515	ELECT	100U M	16V	C513	303 367 0410	CERAMIC	0.1U K	50V
C4607	303 391 5115	ELECT	100U M	16V	C514	303 367 0410	CERAMIC	0.1U K	50V
	303 296 9515	ELECT	100U M	16V	C5141	303 441 9810	CERAMIC	0.01U K	50V
C4608	303 391 5115	ELECT	100U M	16V	C515	303 409 3426	CERAMIC	0.1U K	16V
	303 296 9515	ELECT	100U M	16V	C5151	303 441 9810	CERAMIC	0.01U K	50V
C4609	303 391 5115	ELECT	100U M	16V	C516	303 409 3426	CERAMIC	0.1U K	16V
	303 296 9515	ELECT	100U M	16V	C517	303 409 3426	CERAMIC	0.1U K	16V
C4611	303 391 5115	ELECT	100U M	16V	C518	303 409 3426	CERAMIC	0.1U K	16V
	303 296 9515	ELECT	100U M	16V	C519	303 409 3426	CERAMIC	0.1U K	16V
C4612	303 391 5115	ELECT	100U M	16V	C5201	303 372 7510	CERAMIC	2.2U K	6.3V
	303 296 9515	ELECT	100U M	16V	C5202	303 372 7510	CERAMIC	2.2U K	6.3V
C4613	303 391 5115	ELECT	100U M	16V	C5203	303 372 7510	CERAMIC	2.2U K	6.3V
	303 296 9515	ELECT	100U M	16V	C5204	303 372 7510	CERAMIC	2.2U K	6.3V
C4614	303 391 5115	ELECT	100U M	16V	C5206	303 372 7510	CERAMIC	2.2U K	6.3V
	303 296 9515	ELECT	100U M	16V	C5207	303 372 7510	CERAMIC	2.2U K	6.3V
C4616	303 391 5115	ELECT	100U M	16V	C5208	303 391 5115	ELECT	100U M	16V
	303 296 9515	ELECT	100U M	16V		303 296 9515	ELECT	100U M	16V
C4621	303 441 9810	CERAMIC	0.01U K	50V	C5209	303 409 3426	CERAMIC	0.1U K	16V
C4631	303 383 5215	CERAMIC	4.7U K	6.3V	C5211	303 409 3426	CERAMIC	0.1U K	16V
C4632	303 394 5815	CERAMIC	4.7U K	16V	C5212	303 409 3426	CERAMIC	0.1U K	16V
C4633	303 383 5215	CERAMIC	4.7U K	6.3V	C5213	303 409 3426	CERAMIC	0.1U K	16V
C4634	303 383 5215	CERAMIC	4.7U K	6.3V	C5214	303 409 3426	CERAMIC	0.1U K	16V
C4635TM	303 383 5215	CERAMIC	4.7U K	6.3V	C5216	303 409 3426	CERAMIC	0.1U K	16V
C4636	303 383 5215	CERAMIC	4.7U K	6.3V	C5217	303 433 1112	CERAMIC	1U K	10V
C4637	303 383 5215	CERAMIC	4.7U K	6.3V	C5218	303 409 3426	CERAMIC	0.1U K	16V
C4638TM	303 026 7514	CERAMIC	470P J	50V	C5219	303 409 3426	CERAMIC	0.1U K	16V
C4641TM	303 215 2214	CERAMIC	0.01U K	50V	C5221	303 441 9810	CERAMIC	0.01U K	50V
C4642TM	303 215 2214	CERAMIC	0.01U K	50V	C5222	303 409 3426	CERAMIC	0.1U K	16V
C4643TM	303 215 2214	CERAMIC	0.01U K	50V	C5224	303 409 3426	CERAMIC	0.1U K	16V
C4644TM	303 215 2214	CERAMIC	0.01U K	50V	C5227	303 381 9918	ELECT	470U M	16V
C4645TM	303 215 2214	CERAMIC	0.01U K	50V		303 407 3517	ELECT	470U M	16V
C471	303 433 1112	CERAMIC	1U K	10V	C5228	303 441 9810	CERAMIC	0.01U K	50V
C478	303 394 1312	ELECT	100U M	6.3V	C5229	303 381 9918	ELECT	470U M	16V
	303 387 4917	ELECT	100U M	6.3V		303 407 3517	ELECT	470U M	16V
C479	303 394 1312	ELECT	100U M	6.3V	C5231	303 441 9810	CERAMIC	0.01U K	50V
	303 387 4917	ELECT	100U M	6.3V	C5232	303 381 9918	ELECT	470U M	16V
C4801	303 409 3426	CERAMIC	0.1U K	16V		303 407 3517	ELECT	470U M	16V
C4802	303 358 3215	CERAMIC	10U K	6.3V	C5233	303 441 9810	CERAMIC	0.01U K	50V
	303 368 7319	CERAMIC	10U K	6.3V	C5234	303 409 3426	CERAMIC	0.1U K	16V
C4805	303 409 3426	CERAMIC	0.1U K	16V	C5236	303 358 3215	CERAMIC	10U K	6.3V
C4891	303 409 3426	CERAMIC	0.1U K	16V		303 368 7319	CERAMIC	10U K	6.3V
C4892	303 394 1312	ELECT	100U M	6.3V	C5237	303 409 3426	CERAMIC	0.1U K	16V
	303 387 4917	ELECT	100U M	6.3V	C5238	303 409 3426	CERAMIC	0.1U K	16V
C501	303 433 1112	CERAMIC	1U K	10V	C5239	303 409 3426	CERAMIC	0.1U K	16V
C502	303 367 0410	CERAMIC	0.1U K	50V	C5241	303 409 3426	CERAMIC	0.1U K	16V
C503	303 367 0410	CERAMIC	0.1U K	50V	C5242	303 409 3426	CERAMIC	0.1U K	16V
C504	303 367 0410	CERAMIC	0.1U K	50V	C5243	303 358 3215	CERAMIC	10U K	6.3V
C505	303 367 0410	CERAMIC	0.1U K	50V		303 368 7319	CERAMIC	10U K	6.3V
C506	303 367 0410	CERAMIC	0.1U K	50V	C5244	303 409 3426	CERAMIC	0.1U K	16V
C507	303 367 0410	CERAMIC	0.1U K	50V	C5246	303 409 3426	CERAMIC	0.1U K	16V
C508	303 367 0410	CERAMIC	0.1U K	50V	C5251	303 367 0410	CERAMIC	0.1U K	50V
C509	303 367 0410	CERAMIC	0.1U K	50V	C5252	303 391 5115	ELECT	100U M	16V
C5101	303 367 0410	CERAMIC	0.1U K	50V		303 296 9515	ELECT	100U M	16V
C5103	303 391 5115	ELECT	100U M	16V	C5253	303 378 9112	POS-SOLID	47U M	16V
	303 296 9515	ELECT	100U M	16V	C526	303 401 3810	ELECT	10U M	25V
C511	303 367 0410	CERAMIC	0.1U K	50V		303 424 1510	ELECT	10.0U M	25V
C5111	303 409 3426	CERAMIC	0.1U K	16V	C527	303 433 1112	CERAMIC	1U K	10V
C5112	303 391 5115	ELECT	100U M	16V	C528	303 401 3810	ELECT	10U M	25V
	303 296 9515	ELECT	100U M	16V		303 424 1510	ELECT	10.0U M	25V
C512	303 276 1317	CERAMIC	1000P K	50V	C529	303 135 0710	CERAMIC	1U K	25V
C5121	303 372 7510	CERAMIC	2.2U K	6.3V	C5301	303 409 3426	CERAMIC	0.1U K	16V
C5123	303 376 6311	CERAMIC	0.47U K	10V	C5302	303 433 1112	CERAMIC	1U K	10V
C5124	303 441 9810	CERAMIC	0.01U K	50V	C5303	303 433 1112	CERAMIC	1U K	10V
C5126	303 433 1112	CERAMIC	1U K	10V	C5306	303 409 3426	CERAMIC	0.1U K	16V
C5128	303 433 1112	CERAMIC	1U K	10V	C531	303 433 1112	CERAMIC	1U K	10V
C5129	303 381 5613	ELECT	220U M	16V	C532	303 367 0410	CERAMIC	0.1U K	50V

Electrical Parts List

Key No. Part No. Description					Key No. Part No. Description				
C5321	303 372 7510	CERAMIC	2.2U K	6.3V	C5662	303 347 5510	POS-SOLID	470U M	4V
C5322	303 376 6311	CERAMIC	0.47U K	10V	C5663	303 409 3426	CERAMIC	0.1U K	16V
C5323	303 376 6311	CERAMIC	0.47U K	10V	C5664	303 306 6510	CERAMIC	8200P K	50V
C5324	303 394 1312	ELECT	100U M	6.3V	C567	303 367 0410	CERAMIC	0.1U K	50V
	303 387 4917	ELECT	100U M	6.3V	C568	303 367 0410	CERAMIC	0.1U K	50V
C5326	303 409 3426	CERAMIC	0.1U K	16V	C569	303 367 0410	CERAMIC	0.1U K	50V
C5327	303 433 1112	CERAMIC	1U K	10V	C5691	303 409 3426	CERAMIC	0.1U K	16V
C5328	303 372 7510	CERAMIC	2.2U K	6.3V	C5692	303 394 1312	ELECT	100U M	6.3V
C5329	303 433 1112	CERAMIC	1U K	10V		303 387 4917	ELECT	100U M	6.3V
C533	303 367 0410	CERAMIC	0.1U K	50V	C571	303 367 0410	CERAMIC	0.1U K	50V
C5331	303 294 6110	CERAMIC	100P J	50V	C572	303 276 1317	CERAMIC	1000P K	50V
C5332	303 409 3426	CERAMIC	0.1U K	16V	C573	303 367 0410	CERAMIC	0.1U K	50V
C534	303 367 0410	CERAMIC	0.1U K	50V	C574	303 367 0410	CERAMIC	0.1U K	50V
C5341	303 409 3426	CERAMIC	0.1U K	16V	C575	303 409 3426	CERAMIC	0.1U K	16V
C535	303 367 0410	CERAMIC	0.1U K	50V	C576	303 409 3426	CERAMIC	0.1U K	16V
C536	303 367 0410	CERAMIC	0.1U K	50V	C577	303 409 3426	CERAMIC	0.1U K	16V
C537	303 367 0410	CERAMIC	0.1U K	50V	C578	303 409 3426	CERAMIC	0.1U K	16V
C538	303 367 0410	CERAMIC	0.1U K	50V	C579	303 409 3426	CERAMIC	0.1U K	16V
C539	303 367 0410	CERAMIC	0.1U K	50V	C586	303 401 3810	ELECT	10U M	25V
C541	303 367 0410	CERAMIC	0.1U K	50V		303 424 1510	ELECT	10.0U M	25V
C542	303 276 1317	CERAMIC	1000P K	50V	C587	303 433 1112	CERAMIC	1U K	10V
C543	303 367 0410	CERAMIC	0.1U K	50V	C588	303 401 3810	ELECT	10U M	25V
C544	303 367 0410	CERAMIC	0.1U K	50V		303 424 1510	ELECT	10.0U M	25V
C545	303 409 3426	CERAMIC	0.1U K	16V	C589	303 135 0710	CERAMIC	1U K	25V
C546	303 409 3426	CERAMIC	0.1U K	16V	C6521	303 409 3426	CERAMIC	0.1U K	16V
C547	303 409 3426	CERAMIC	0.1U K	16V	C6522	303 409 3426	CERAMIC	0.1U K	16V
C548	303 409 3426	CERAMIC	0.1U K	16V	C6523	303 409 3426	CERAMIC	0.1U K	16V
C549	303 409 3426	CERAMIC	0.1U K	16V	C6531	303 367 0410	CERAMIC	0.1U K	50V
C5501	303 409 3426	CERAMIC	0.1U K	16V	C6551	303 409 3426	CERAMIC	0.1U K	16V
C5502	303 409 3426	CERAMIC	0.1U K	16V	C6552	303 409 3426	CERAMIC	0.1U K	16V
C5503	303 409 3426	CERAMIC	0.1U K	16V	C6553	303 409 3426	CERAMIC	0.1U K	16V
C5504	303 409 3426	CERAMIC	0.1U K	16V	C6561	303 409 3426	CERAMIC	0.1U K	16V
C5541	303 135 0710	CERAMIC	1U K	25V	C6801	303 409 3426	CERAMIC	0.1U K	16V
C5551	303 409 3426	CERAMIC	0.1U K	16V	C6802	303 409 3426	CERAMIC	0.1U K	16V
C556	303 401 3810	ELECT	10U M	25V	C6803	303 409 3426	CERAMIC	0.1U K	16V
	303 424 1510	ELECT	10.0U M	25V	C7201	303 409 3426	CERAMIC	0.1U K	16V
C5561	303 409 3426	CERAMIC	0.1U K	16V	C7202	303 409 3426	CERAMIC	0.1U K	16V
C5562	303 409 3426	CERAMIC	0.1U K	16V	C7203	303 409 3426	CERAMIC	0.1U K	16V
C5563	303 409 3426	CERAMIC	0.1U K	16V	C7204	303 409 3426	CERAMIC	0.1U K	16V
C557	303 433 1112	CERAMIC	1U K	10V	C7206	303 409 3426	CERAMIC	0.1U K	16V
C558	303 401 3810	ELECT	10U M	25V	C7207	303 409 3426	CERAMIC	0.1U K	16V
	303 424 1510	ELECT	10.0U M	25V	C7208	303 409 3426	CERAMIC	0.1U K	16V
C559	303 135 0710	CERAMIC	1U K	25V	C7209	303 409 3426	CERAMIC	0.1U K	16V
C5601	303 325 6317	CERAMIC	0.22U K	10V	C7211	303 409 3426	CERAMIC	0.1U K	16V
C5602	303 433 1112	CERAMIC	1U K	10V	C7212	303 409 3426	CERAMIC	0.1U K	16V
C5603	303 409 3426	CERAMIC	0.1U K	16V	C7213	303 409 3426	CERAMIC	0.1U K	16V
C5604	303 379 7315	CERAMIC	4700P K	50V	C7214	303 409 3426	CERAMIC	0.1U K	16V
C5606	303 433 1112	CERAMIC	1U K	10V	C7216	303 409 3426	CERAMIC	0.1U K	16V
C5607	303 379 7315	CERAMIC	4700P K	50V	C7217	303 409 3426	CERAMIC	0.1U K	16V
C5608	303 379 7315	CERAMIC	4700P K	50V	C7218	303 409 3426	CERAMIC	0.1U K	16V
C5609	303 409 3426	CERAMIC	0.1U K	16V	C7219	303 409 3426	CERAMIC	0.1U K	16V
C561	303 433 1112	CERAMIC	1U K	10V	C7221	303 409 3426	CERAMIC	0.1U K	16V
C5611	303 337 9511	CERAMIC	0.15U K	10V	C7222	303 409 3426	CERAMIC	0.1U K	16V
C562	303 367 0410	CERAMIC	0.1U K	50V	C7223	303 409 3426	CERAMIC	0.1U K	16V
C5621	303 433 1112	CERAMIC	1U K	10V	C7224	303 409 3426	CERAMIC	0.1U K	16V
C5622	303 347 5510	POS-SOLID	470U M	4V	C7226	303 394 1312	ELECT	100U M	6.3V
C5623	303 409 3426	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
C5624	303 306 6510	CERAMIC	8200P K	50V	C7227	303 409 3426	CERAMIC	0.1U K	16V
C563	303 367 0410	CERAMIC	0.1U K	50V	C7229	303 394 1312	ELECT	100U M	6.3V
C564	303 367 0410	CERAMIC	0.1U K	50V		303 387 4917	ELECT	100U M	6.3V
C5641	303 433 1112	CERAMIC	1U K	10V	C7231	303 409 3426	CERAMIC	0.1U K	16V
C5642	303 347 5510	POS-SOLID	470U M	4V	C7232	303 394 1312	ELECT	100U M	6.3V
C5643	303 409 3426	CERAMIC	0.1U K	16V		303 387 4917	ELECT	100U M	6.3V
C5644	303 306 6510	CERAMIC	8200P K	50V	C7233	303 409 3426	CERAMIC	0.1U K	16V
C565	303 367 0410	CERAMIC	0.1U K	50V	C7238	303 383 5215	CERAMIC	4.7U K	6.3V
C566	303 367 0410	CERAMIC	0.1U K	50V	C7239	303 383 5215	CERAMIC	4.7U K	6.3V
C5661	303 433 1112	CERAMIC	1U K	10V	C7241	303 383 5215	CERAMIC	4.7U K	6.3V

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Key No. Part No. Description					Key No. Part No. Description				
C7242	303 383 5215	CERAMIC	4.7U K	6.3V	C8841	303 276 3113	CERAMIC	33P J	50V
C7243	303 409 3426	CERAMIC	0.1U K	16V	C8842	303 276 3113	CERAMIC	33P J	50V
C7261	303 394 1312	ELECT	100U M	6.3V	C8843	303 409 3426	CERAMIC	0.1U K	16V
	303 387 4917	ELECT	100U M	6.3V	RESISTOR				
C7262	303 409 3426	CERAMIC	0.1U K	16V	R1000	301 238 4512	MT-GLAZE	47 JA	1/3W
C7271	303 409 3426	CERAMIC	0.1U K	16V	R1001	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C7272	303 394 1312	ELECT	100U M	6.3V	R1002	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
	303 387 4917	ELECT	100U M	6.3V	R1003	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C7281	303 394 1312	ELECT	100U M	6.3V	R1004	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
	303 387 4917	ELECT	100U M	6.3V	R1006	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C7282	303 409 3426	CERAMIC	0.1U K	16V	R1007	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C7801	303 409 3426	CERAMIC	0.1U K	16V	R1008	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C7802	303 409 3426	CERAMIC	0.1U K	16V	R1009	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C7803	303 409 3426	CERAMIC	0.1U K	16V	R1011	301 225 8110	MT-GLAZE	10 JA	1/16W
C7804	303 409 3426	CERAMIC	0.1U K	16V	R1013	301 224 9514	MT-GLAZE	2.2K JA	1/16W
C7806	303 409 3426	CERAMIC	0.1U K	16V	R1014	301 225 1418	MT-GLAZE	47K JA	1/16W
C7821	303 409 3426	CERAMIC	0.1U K	16V	R1016	301 224 9316	MT-GLAZE	1K JA	1/16W
C8001	303 358 3215	CERAMIC	10U K	6.3V	R102	301 263 7420	MT-GLAZE	75 JA	1/16W
	303 368 7319	CERAMIC	10U K	6.3V	R1020TM	301 150 6014	MT-GLAZE	0.000 ZA	1/10W
C8002	303 358 3215	CERAMIC	10U K	6.3V	R1021	301 260 4115	MT-GLAZE	75 JA	1/3W
	303 368 7319	CERAMIC	10U K	6.3V	R1022	301 260 4115	MT-GLAZE	75 JA	1/3W
C8003	303 358 3215	CERAMIC	10U K	6.3V	R1023	301 260 4115	MT-GLAZE	75 JA	1/3W
	303 368 7319	CERAMIC	10U K	6.3V	R103	301 294 3016	MT-GLAZE	10K FA	1/16W
C8004	303 409 3426	CERAMIC	0.1U K	16V	R1031	301 260 4115	MT-GLAZE	75 JA	1/3W
C8006	303 358 3215	CERAMIC	10U K	6.3V	R1032	301 260 4115	MT-GLAZE	75 JA	1/3W
	303 368 7319	CERAMIC	10U K	6.3V	R1033	301 260 4115	MT-GLAZE	75 JA	1/3W
C8007	303 409 3426	CERAMIC	0.1U K	16V	R1041	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C8008	303 276 1317	CERAMIC	1000P K	50V	R1042	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C8009	303 358 3215	CERAMIC	10U K	6.3V	R1043	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
	303 368 7319	CERAMIC	10U K	6.3V	R1044	301 224 9019	MT-GLAZE	10K JA	1/16W
C801	303 409 3426	CERAMIC	0.1U K	16V	R1046	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C8011	303 276 1317	CERAMIC	1000P K	50V	R1047	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C8012	303 276 1317	CERAMIC	1000P K	50V	R1051	301 225 1210	MT-GLAZE	4.7K JA	1/16W
C8013	303 276 1317	CERAMIC	1000P K	50V	R1052	301 225 1210	MT-GLAZE	4.7K JA	1/16W
C8014	303 276 1317	CERAMIC	1000P K	50V	R1061	301 224 9019	MT-GLAZE	10K JA	1/16W
C8021	303 276 1317	CERAMIC	1000P K	50V	R1062	301 224 9019	MT-GLAZE	10K JA	1/16W
C8022	303 409 3426	CERAMIC	0.1U K	16V	R1063	301 224 9019	MT-GLAZE	10K JA	1/16W
C8023	303 276 1317	CERAMIC	1000P K	50V	R107	301 224 9514	MT-GLAZE	2.2K JA	1/16W
C8024	303 409 3426	CERAMIC	0.1U K	16V	R108	301 224 9514	MT-GLAZE	2.2K JA	1/16W
C8026	303 409 3426	CERAMIC	0.1U K	16V	R112	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C8027	303 276 1317	CERAMIC	1000P K	50V	R113	301 224 8814	MT-GLAZE	100 JA	1/16W
C8028	303 409 3426	CERAMIC	0.1U K	16V	R114	301 224 8814	MT-GLAZE	100 JA	1/16W
C8029	303 276 1317	CERAMIC	1000P K	50V	R121	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
C8031	303 409 3426	CERAMIC	0.1U K	16V	R122	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
C8032	303 276 1317	CERAMIC	1000P K	50V	R1301	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C8033	303 409 3426	CERAMIC	0.1U K	16V	R1306	301 224 9316	MT-GLAZE	1K JA	1/16W
C8034	303 276 1317	CERAMIC	1000P K	50V	R1307	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C8036	303 276 1317	CERAMIC	1000P K	50V	R131	301 225 8110	MT-GLAZE	10 JA	1/16W
C8037	303 409 3426	CERAMIC	0.1U K	16V	R132	301 225 8110	MT-GLAZE	10 JA	1/16W
C8038	303 409 3426	CERAMIC	0.1U K	16V	R133	301 225 8110	MT-GLAZE	10 JA	1/16W
C8039	303 276 1317	CERAMIC	1000P K	50V	R1351	301 224 9019	MT-GLAZE	10K JA	1/16W
C8041	303 409 3426	CERAMIC	0.1U K	16V	R1352	301 224 9019	MT-GLAZE	10K JA	1/16W
C8042	303 394 1312	ELECT	100U M	6.3V	R1353	301 225 0213	MT-GLAZE	3.3K JA	1/16W
	303 387 4917	ELECT	100U M	6.3V	R1354	301 225 0213	MT-GLAZE	3.3K JA	1/16W
C8101	303 409 3426	CERAMIC	0.1U K	16V	R136	301 225 8110	MT-GLAZE	10 JA	1/16W
C8121	303 409 3426	CERAMIC	0.1U K	16V	R137	301 225 8110	MT-GLAZE	10 JA	1/16W
C8131	303 409 3426	CERAMIC	0.1U K	16V	R1376	301 225 1210	MT-GLAZE	4.7K JA	1/16W
C8141	303 409 3426	CERAMIC	0.1U K	16V	R1378	301 225 1210	MT-GLAZE	4.7K JA	1/16W
C8161	303 358 3215	CERAMIC	10U K	6.3V	R138	301 224 9316	MT-GLAZE	1K JA	1/16W
	303 368 7319	CERAMIC	10U K	6.3V	R139	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C861	303 409 3426	CERAMIC	0.1U K	16V	R1391	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C862	303 433 1112	CERAMIC	1U K	10V	R1392	301 226 1516	MT-GLAZE	0.000 ZA	1/16W
C8801	303 409 3426	CERAMIC	0.1U K	16V	R1393	301 225 0213	MT-GLAZE	3.3K JA	1/16W
C8802	303 394 1312	ELECT	100U M	6.3V	R1394	301 225 0213	MT-GLAZE	3.3K JA	1/16W
	303 387 4917	ELECT	100U M	6.3V	R1401	301 037 5017	MT-GLAZE	0.000 ZA	1/10W
C8821	303 276 1317	CERAMIC	1000P K	50V	R1402	301 224 8814	MT-GLAZE	100 JA	1/16W
C8831	303 276 1317	CERAMIC	1000P K	50V					

Electrical Parts List

Key No. Part No. Description				Key No. Part No. Description			
R1403	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R1857	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R141	301 225 8110	MT-GLAZE	10 JA 1/16W	R1858	301 224 9019	MT-GLAZE	10K JA 1/16W
R1412	301 224 8814	MT-GLAZE	100 JA 1/16W	R1859	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R142	301 225 8110	MT-GLAZE	10 JA 1/16W	R1861	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R143	301 225 8110	MT-GLAZE	10 JA 1/16W	R1863	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R146	301 225 8110	MT-GLAZE	10 JA 1/16W	R1864	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R147	301 225 8110	MT-GLAZE	10 JA 1/16W	R1866	301 224 9019	MT-GLAZE	10K JA 1/16W
R148	301 225 8110	MT-GLAZE	10 JA 1/16W	R1867	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R151	301 225 7915	MT-GLAZE	220 JA 1/16W	R1868	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R152	301 224 9316	MT-GLAZE	1K JA 1/16W	R1869	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R153	301 224 9316	MT-GLAZE	1K JA 1/16W	R1870	301 224 9217	MT-GLAZE	15K JA 1/16W
R154	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1871	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R156	301 225 7915	MT-GLAZE	220 JA 1/16W	R1872	301 224 9415	MT-GLAZE	1M JA 1/16W
R157	301 224 9316	MT-GLAZE	1K JA 1/16W	R1873	301 237 2915	MT-GLAZE	51 JA 1/16W
R158	301 224 9316	MT-GLAZE	1K JA 1/16W	R1874	301 224 9019	MT-GLAZE	10K JA 1/16W
R159	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1875	301 224 9217	MT-GLAZE	15K JA 1/16W
R161	301 225 7915	MT-GLAZE	220 JA 1/16W	R1876	301 224 9019	MT-GLAZE	10K JA 1/16W
R162	301 224 9316	MT-GLAZE	1K JA 1/16W	R1877	301 224 9019	MT-GLAZE	10K JA 1/16W
R163	301 224 9316	MT-GLAZE	1K JA 1/16W	R1878	301 224 9019	MT-GLAZE	10K JA 1/16W
R164	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1879	301 224 9019	MT-GLAZE	10K JA 1/16W
R166	301 256 0312	MT-GLAZE	820 JA 1/10W	R1880	301 224 9019	MT-GLAZE	10K JA 1/16W
R167	301 275 1819	MT-GLAZE	1.1K JA 1/16W	R1881	301 224 9019	MT-GLAZE	10K JA 1/16W
R168	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R1882	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R169	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1883	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R171	301 256 0312	MT-GLAZE	820 JA 1/10W	R1884	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R172	301 225 1517	MT-GLAZE	3.9K JA 1/16W	R1885	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R173	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R1886	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R174	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1887	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R176	301 338 6713	MT-GLAZE	1.6K FA 1/16W	R1888	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R177	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R1889	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R1801	301 224 9019	MT-GLAZE	10K JA 1/16W	R1892	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1803	301 224 9217	MT-GLAZE	15K JA 1/16W	R1893	301 224 9316	MT-GLAZE	1K JA 1/16W
R1804	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1894	301 224 9316	MT-GLAZE	1K JA 1/16W
R1806	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1896	301 224 9316	MT-GLAZE	1K JA 1/16W
R1807	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1897	301 224 9316	MT-GLAZE	1K JA 1/16W
R181	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R1898	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1813	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1899	301 224 9316	MT-GLAZE	1K JA 1/16W
R1816	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R1902	301 224 9316	MT-GLAZE	1K JA 1/16W
R182	301 224 9316	MT-GLAZE	1K JA 1/16W	R1903	301 224 9316	MT-GLAZE	1K JA 1/16W
R1821	301 224 9019	MT-GLAZE	10K JA 1/16W	R1904	301 224 9316	MT-GLAZE	1K JA 1/16W
R1822	301 224 9019	MT-GLAZE	10K JA 1/16W	R1930	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1824	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1931	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1825	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1932	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1826	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1934	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1827	301 224 9019	MT-GLAZE	10K JA 1/16W	R1939	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1828	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1940	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1829	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R1942	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R183	301 224 9316	MT-GLAZE	1K JA 1/16W	R1943	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1831	301 224 9019	MT-GLAZE	10K JA 1/16W	R1944	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1832	301 224 9019	MT-GLAZE	10K JA 1/16W	R1954	301 224 9019	MT-GLAZE	10K JA 1/16W
R1833	301 225 8110	MT-GLAZE	10 JA 1/16W	R2501	301 224 8814	MT-GLAZE	100 JA 1/16W
R1834	301 225 8110	MT-GLAZE	10 JA 1/16W	R2502	301 224 8814	MT-GLAZE	100 JA 1/16W
R1836	301 225 8110	MT-GLAZE	10 JA 1/16W	R2503	301 224 8814	MT-GLAZE	100 JA 1/16W
R1837	301 225 8110	MT-GLAZE	10 JA 1/16W	R2504	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R1838	301 225 8110	MT-GLAZE	10 JA 1/16W	R2514	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R1839	301 225 8110	MT-GLAZE	10 JA 1/16W	R2516	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R184	301 224 9316	MT-GLAZE	1K JA 1/16W	R2517	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1842	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2521	301 224 8913	MT-GLAZE	100K JA 1/16W
R1843	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2531	301 224 8814	MT-GLAZE	100 JA 1/16W
R1844	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2532	301 224 8814	MT-GLAZE	100 JA 1/16W
R1846	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2533	301 224 8814	MT-GLAZE	100 JA 1/16W
R1847	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2534	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R1852	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2544	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R1853	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2546	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1854	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2547	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R1855	301 225 8110	MT-GLAZE	10 JA 1/16W	R2551	301 224 8913	MT-GLAZE	100K JA 1/16W
R1856	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R2561	301 224 8814	MT-GLAZE	100 JA 1/16W

Electrical Parts List

Key No. Part No. Description				Key No. Part No. Description			
R2562	301 224 8814	MT-GLAZE	100 JA 1/16W	R3133	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2563	301 224 8814	MT-GLAZE	100 JA 1/16W	R3134	301 302 5414	MT-GLAZE	220 FA 1/16W
R2564	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R3136	301 294 2613	MT-GLAZE	4.7K FA 1/16W
R2574	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R3137	301 225 0312	MT-GLAZE	33 JA 1/16W
R2576	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3138	301 225 0312	MT-GLAZE	33 JA 1/16W
R2577	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3139	301 225 0312	MT-GLAZE	33 JA 1/16W
R2581	301 224 8913	MT-GLAZE	100K JA 1/16W	R314	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2800	301 260 4115	MT-GLAZE	75 JA 1/3W	R3141	301 294 2613	MT-GLAZE	4.7K FA 1/16W
R2801	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3142	301 225 0312	MT-GLAZE	33 JA 1/16W
R2802	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3143	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2803	301 224 9316	MT-GLAZE	1K JA 1/16W	R3146	301 224 9118	MT-GLAZE	150 JA 1/16W
R2804	301 224 9316	MT-GLAZE	1K JA 1/16W	R3147	301 225 8011	MT-GLAZE	330 JA 1/16W
R2805	301 260 4115	MT-GLAZE	75 JA 1/3W	R3148	301 301 3510	MT-GLAZE	200 JA 1/16W
R2806	301 224 9019	MT-GLAZE	10K JA 1/16W	R3149	301 224 9316	MT-GLAZE	1K JA 1/16W
R2807	301 224 9019	MT-GLAZE	10K JA 1/16W	R3151	301 263 6928	MT-GLAZE	2K JA 1/16W
R2808	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3157	301 225 0312	MT-GLAZE	33 JA 1/16W
R2809	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3158	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2811	301 225 8110	MT-GLAZE	10 JA 1/16W	R316	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2812	301 225 8110	MT-GLAZE	10 JA 1/16W	R317	301 224 8814	MT-GLAZE	100 JA 1/16W
R2816	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R318	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2817	301 224 8814	MT-GLAZE	100 JA 1/16W	R319	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2818	301 224 9019	MT-GLAZE	10K JA 1/16W	R321	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2851	301 224 9019	MT-GLAZE	10K JA 1/16W	R322	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2853	301 224 9019	MT-GLAZE	10K JA 1/16W	R331	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2856	301 224 9019	MT-GLAZE	10K JA 1/16W	R332	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2858	301 224 9019	MT-GLAZE	10K JA 1/16W	R333	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2861	301 224 9019	MT-GLAZE	10K JA 1/16W	R336	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R2863	301 226 5514	MT-GLAZE	120 JA 1/16W	R339	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R2864	301 226 5514	MT-GLAZE	120 JA 1/16W	R341	301 256 6611	MT-GLAZE	68K JA 1/10W
R2866	301 225 1616	MT-GLAZE	390 JA 1/16W	R343	301 224 9019	MT-GLAZE	10K JA 1/16W
R2867	301 225 0015	MT-GLAZE	270 JA 1/16W	R344	301 224 9019	MT-GLAZE	10K JA 1/16W
R2868	301 225 1616	MT-GLAZE	390 JA 1/16W	R346	301 256 1517	MT-GLAZE	13K JA 1/10W
R2869	301 225 0718	MT-GLAZE	56K JA 1/16W	R348	301 224 9019	MT-GLAZE	10K JA 1/16W
R2871	301 225 1210	MT-GLAZE	4.7K JA 1/16W	R349	301 224 9019	MT-GLAZE	10K JA 1/16W
R2872	301 225 3818	MT-GLAZE	1.5K JA 1/16W	R3501	301 224 8913	MT-GLAZE	100K JA 1/16W
R301	301 224 9316	MT-GLAZE	1K JA 1/16W	R3503	301 225 1418	MT-GLAZE	47K JA 1/16W
R302	301 224 9316	MT-GLAZE	1K JA 1/16W	R3504	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R303	301 224 9316	MT-GLAZE	1K JA 1/16W	R3509	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R304	301 224 9316	MT-GLAZE	1K JA 1/16W	R352	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R306	301 224 9712	MT-GLAZE	22 JA 1/16W	R3531	301 224 8913	MT-GLAZE	100K JA 1/16W
R307	301 224 9712	MT-GLAZE	22 JA 1/16W	R3533	301 225 1418	MT-GLAZE	47K JA 1/16W
R308	301 339 9515	MT-GLAZE	12.1K FA 1/10W	R3534	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3101	301 265 4417	MT-GLAZE	6.8K FA 1/10W	R3539	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R3102	301 265 0419	MT-GLAZE	39K FA 1/10W	R3561	301 224 8913	MT-GLAZE	100K JA 1/16W
R3103	301 265 3113	MT-GLAZE	5.6K FA 1/10W	R3563	301 225 1418	MT-GLAZE	47K JA 1/16W
R3104	301 265 4318	MT-GLAZE	680 FA 1/10W	R3564	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3106	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3569	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R3108	301 229 3913	MT-GLAZE	180 JA 1/16W	R361	301 339 9614	MT-GLAZE	23.2K FA 1/10W
R3109	301 294 3115	MT-GLAZE	1K FA 1/16W	R362	301 256 6611	MT-GLAZE	68K JA 1/10W
R311	301 224 9019	MT-GLAZE	10K JA 1/16W	R371	301 224 9415	MT-GLAZE	1M JA 1/16W
R3111	301 237 2915	MT-GLAZE	51 JA 1/16W	R3801	301 225 8110	MT-GLAZE	10 JA 1/16W
R3112	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R3803	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3113	301 294 3115	MT-GLAZE	1K FA 1/16W	R3804	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R3116	301 294 3115	MT-GLAZE	1K FA 1/16W	R381	301 263 7420	MT-GLAZE	75 JA 1/16W
R3118	301 224 9019	MT-GLAZE	10K JA 1/16W	R386	301 263 7420	MT-GLAZE	75 JA 1/16W
R3119	301 224 9613	MT-GLAZE	2.7K JA 1/16W	R391	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R312	301 224 9019	MT-GLAZE	10K JA 1/16W	R392	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3121	301 225 0312	MT-GLAZE	33 JA 1/16W	R393	301 224 9019	MT-GLAZE	10K JA 1/16W
R3122	301 225 0312	MT-GLAZE	33 JA 1/16W	R401	301 224 8814	MT-GLAZE	100 JA 1/16W
R3123	301 225 0312	MT-GLAZE	33 JA 1/16W	R402	301 225 1814	MT-GLAZE	47 JA 1/16W
R3124	301 225 0312	MT-GLAZE	33 JA 1/16W	R404	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3126	301 225 0312	MT-GLAZE	33 JA 1/16W	R406	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3127	301 225 0312	MT-GLAZE	33 JA 1/16W	R407	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3128	301 225 0312	MT-GLAZE	33 JA 1/16W	R408	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3129	301 225 0312	MT-GLAZE	33 JA 1/16W	R409	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R3131	301 225 0312	MT-GLAZE	33 JA 1/16W	R411	301 225 1814	MT-GLAZE	47 JA 1/16W
R3132	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R412	301 225 1814	MT-GLAZE	47 JA 1/16W

Electrical Parts List

Key No. Part No. Description				Key No. Part No. Description			
R413	301 225 1814	MT-GLAZE	47 JA 1/16W	R511	301 224 8814	MT-GLAZE	100 JA 1/16W
R4131	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5111	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R4132	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5112	301 276 4710	MT-GLAZE	0.000 ZA 1/3W
R4133	301 224 9019	MT-GLAZE	10K JA 1/16W	R512	301 224 8814	MT-GLAZE	100 JA 1/16W
R414	301 225 1814	MT-GLAZE	47 JA 1/16W	R5121	301 224 9019	MT-GLAZE	10K JA 1/16W
R4141	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5122	301 229 7218	MT-GLAZE	18K JA 1/16W
R4142	301 224 9019	MT-GLAZE	10K JA 1/16W	R5123	301 224 9316	MT-GLAZE	1K JA 1/16W
R4143	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5124	301 224 9316	MT-GLAZE	1K JA 1/16W
R4151	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5126	301 224 9019	MT-GLAZE	10K JA 1/16W
R4152	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5127	301 224 9019	MT-GLAZE	10K JA 1/16W
R4153	301 224 9019	MT-GLAZE	10K JA 1/16W	R5128	301 224 9217	MT-GLAZE	15K JA 1/16W
R4161	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5129	301 224 9316	MT-GLAZE	1K JA 1/16W
R4162	301 224 9019	MT-GLAZE	10K JA 1/16W	R513	301 224 8814	MT-GLAZE	100 JA 1/16W
R4163	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5131	301 224 9217	MT-GLAZE	15K JA 1/16W
R421	301 224 8814	MT-GLAZE	100 JA 1/16W	R5132	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R422	301 225 1814	MT-GLAZE	47 JA 1/16W	R5133	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R424	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5141	301 224 9019	MT-GLAZE	10K JA 1/16W
R426	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5142	301 224 9613	MT-GLAZE	2.7K JA 1/16W
R427	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5151	301 224 9316	MT-GLAZE	1K JA 1/16W
R428	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5201	301 225 8110	MT-GLAZE	10 JA 1/16W
R429	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5202	301 225 8110	MT-GLAZE	10 JA 1/16W
R431	301 225 1814	MT-GLAZE	47 JA 1/16W	R5203	301 225 8110	MT-GLAZE	10 JA 1/16W
R432	301 225 1814	MT-GLAZE	47 JA 1/16W	R5204	301 225 8110	MT-GLAZE	10 JA 1/16W
R433	301 225 1814	MT-GLAZE	47 JA 1/16W	R5205TM	301 150 6014	MT-GLAZE	0.000 ZA 1/10W
R434	301 225 1814	MT-GLAZE	47 JA 1/16W	R5206	301 225 8110	MT-GLAZE	10 JA 1/16W
R437	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5207	301 225 8110	MT-GLAZE	10 JA 1/16W
R438	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5208	301 224 8814	MT-GLAZE	100 JA 1/16W
R439	301 224 8814	MT-GLAZE	100 JA 1/16W	R5209	301 224 8814	MT-GLAZE	100 JA 1/16W
R441	301 224 8814	MT-GLAZE	100 JA 1/16W	R521	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R442	301 225 1814	MT-GLAZE	47 JA 1/16W	R5211	301 224 8814	MT-GLAZE	100 JA 1/16W
R444	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5212	301 224 8814	MT-GLAZE	100 JA 1/16W
R446	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5213	301 225 1814	MT-GLAZE	47 JA 1/16W
R447	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5214	301 224 9019	MT-GLAZE	10K JA 1/16W
R448	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5215	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R449	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5216	301 224 9019	MT-GLAZE	10K JA 1/16W
R451	301 225 1814	MT-GLAZE	47 JA 1/16W	R5217	301 224 9019	MT-GLAZE	10K JA 1/16W
R452	301 225 1814	MT-GLAZE	47 JA 1/16W	R5218	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R453	301 225 1814	MT-GLAZE	47 JA 1/16W	R5219	301 225 8110	MT-GLAZE	10 JA 1/16W
R454	301 225 1814	MT-GLAZE	47 JA 1/16W	R522	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R456	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5222	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R461	301 224 8814	MT-GLAZE	100 JA 1/16W	R5223	301 224 9316	MT-GLAZE	1K JA 1/16W
R462	301 224 8814	MT-GLAZE	100 JA 1/16W	R5224	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4621	301 224 9019	MT-GLAZE	10K JA 1/16W	R5226	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4622	301 224 9019	MT-GLAZE	10K JA 1/16W	R5228	301 224 9514	MT-GLAZE	2.2K JA 1/16W
R4623	301 224 9910	MT-GLAZE	22K JA 1/16W	R5229	301 224 8814	MT-GLAZE	100 JA 1/16W
R4624	301 224 9910	MT-GLAZE	22K JA 1/16W	R5231	301 224 8814	MT-GLAZE	100 JA 1/16W
R463	301 224 8814	MT-GLAZE	100 JA 1/16W	R5232	301 224 8814	MT-GLAZE	100 JA 1/16W
R472	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5233	301 225 1814	MT-GLAZE	47 JA 1/16W
R4800	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5234	301 225 1814	MT-GLAZE	47 JA 1/16W
R4801	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5236	301 225 1814	MT-GLAZE	47 JA 1/16W
R4803	301 224 9316	MT-GLAZE	1K JA 1/16W	R5238	301 225 1814	MT-GLAZE	47 JA 1/16W
R4804	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R5239	301 225 1814	MT-GLAZE	47 JA 1/16W
R4805	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R524	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4807	301 224 9514	MT-GLAZE	2.2K JA 1/16W	R5240	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R481	301 225 1814	MT-GLAZE	47 JA 1/16W	R5241	301 225 1814	MT-GLAZE	47 JA 1/16W
R4811	301 224 9019	MT-GLAZE	10K JA 1/16W	R5244	301 226 5415	MT-GLAZE	56 JA 1/16W
R4812	301 224 9019	MT-GLAZE	10K JA 1/16W	R5245	301 226 5415	MT-GLAZE	56 JA 1/16W
R4813	301 224 9019	MT-GLAZE	10K JA 1/16W	R5246	301 226 5415	MT-GLAZE	56 JA 1/16W
R4814	301 235 1415	MT-GLAZE	1.2K JA 1/16W	R5247	301 224 9019	MT-GLAZE	10K JA 1/16W
R482	301 225 1814	MT-GLAZE	47 JA 1/16W	R5251	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R483	301 225 1814	MT-GLAZE	47 JA 1/16W	R5252	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R4891	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R526	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R4892	301 224 8814	MT-GLAZE	100 JA 1/16W	R5301	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R501	301 224 9316	MT-GLAZE	1K JA 1/16W	R5302	301 225 8615	MT-GLAZE	560K JA 1/16W
R502	301 225 8110	MT-GLAZE	10 JA 1/16W	R5303	301 224 9316	MT-GLAZE	1K JA 1/16W
R5101	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5304	301 224 9316	MT-GLAZE	1K JA 1/16W
R5102	301 037 5017	MT-GLAZE	0.000 ZA 1/10W	R5307	301 224 9316	MT-GLAZE	1K JA 1/16W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
R5308	301 224 9316	MT-GLAZE 1K JA 1/16W	R5691	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
R531	301 224 9316	MT-GLAZE 1K JA 1/16W	R571	301 224 8814	MT-GLAZE 100 JA 1/16W
R5312	301 224 9316	MT-GLAZE 1K JA 1/16W	R572	301 224 8814	MT-GLAZE 100 JA 1/16W
R5313	301 224 8814	MT-GLAZE 100 JA 1/16W	R573	301 224 8814	MT-GLAZE 100 JA 1/16W
R532	301 225 8110	MT-GLAZE 10 JA 1/16W	R581	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5322	301 224 9415	MT-GLAZE 1M JA 1/16W	R582	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5323	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R584	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5324	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R586	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5328	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6501	301 102 7410	MT-GLAZE 10 JA 1W
R5329	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6502	301 102 7410	MT-GLAZE 10 JA 1W
R5331	301 225 1517	MT-GLAZE 3.9K JA 1/16W	R6503	301 224 9316	MT-GLAZE 1K JA 1/16W
R5341	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6506	301 224 9316	MT-GLAZE 1K JA 1/16W
R5351	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6508	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R541	301 224 8814	MT-GLAZE 100 JA 1/16W	R6509	301 224 9316	MT-GLAZE 1K JA 1/16W
R542	301 224 8814	MT-GLAZE 100 JA 1/16W	R6511	301 036 9917	MT-GLAZE 560 JA 1/8W
R543	301 224 8814	MT-GLAZE 100 JA 1/16W	R6531	301 102 7410	MT-GLAZE 10 JA 1W
R5501	301 224 9316	MT-GLAZE 1K JA 1/16W	R6532	301 102 7410	MT-GLAZE 10 JA 1W
R5502	301 224 9316	MT-GLAZE 1K JA 1/16W	R6533	301 224 9316	MT-GLAZE 1K JA 1/16W
R5503	301 190 1710	MT-GLAZE 0.000 ZA 1W	R6534	301 224 9316	MT-GLAZE 1K JA 1/16W
R5504	301 230 4718	MT-GLAZE 680 JA 1W	R6536	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5508	301 225 3818	MT-GLAZE 1.5K JA 1/16W	R6538	301 224 9316	MT-GLAZE 1K JA 1/16W
R5509	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6541	301 036 9917	MT-GLAZE 560 JA 1/8W
R551	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6561	301 225 8110	MT-GLAZE 10 JA 1/16W
R5511	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6562	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R5512	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6563	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R552	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6801	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R554	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6802	301 225 0619	MT-GLAZE 5.6K JA 1/16W
R5551	301 190 1710	MT-GLAZE 0.000 ZA 1W	R6803	301 225 1418	MT-GLAZE 47K JA 1/16W
R5552	301 224 9316	MT-GLAZE 1K JA 1/16W	R6804	301 229 7218	MT-GLAZE 18K JA 1/16W
R5554	301 224 9316	MT-GLAZE 1K JA 1/16W	R6806	301 227 5612	MT-GLAZE 8.2K JA 1/16W
R5557	301 230 4718	MT-GLAZE 680 JA 1W	R6807	301 225 0619	MT-GLAZE 5.6K JA 1/16W
R5558	301 225 3818	MT-GLAZE 1.5K JA 1/16W	R6808	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R5559	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6809	301 227 5612	MT-GLAZE 8.2K JA 1/16W
R556	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6811	301 225 0619	MT-GLAZE 5.6K JA 1/16W
R5561	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6812	301 225 0213	MT-GLAZE 3.3K JA 1/16W
R5562	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R6813	301 224 9019	MT-GLAZE 10K JA 1/16W
R5601	401 344 1815	MT-GLAZE 27K DA 1/16W	R6814	301 224 9019	MT-GLAZE 10K JA 1/16W
R5602	301 224 8913	MT-GLAZE 100K JA 1/16W	R6816	301 224 9019	MT-GLAZE 10K JA 1/16W
R5603	401 344 1914	MT-GLAZE 10K DA 1/16W	R7201	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5604	301 224 9019	MT-GLAZE 10K JA 1/16W	R7203	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5606	301 225 2118	MT-GLAZE 12K JA 1/16W	R7206	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5608	301 224 9019	MT-GLAZE 10K JA 1/16W	R7208	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5609	301 224 9019	MT-GLAZE 10K JA 1/16W	R7209	301 037 5017	MT-GLAZE 0.000 ZA 1/10W
R561	301 224 9316	MT-GLAZE 1K JA 1/16W	R7211	301 226 5415	MT-GLAZE 56 JA 1/16W
R5611	301 224 8913	MT-GLAZE 100K JA 1/16W	R7213	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5612	301 224 8913	MT-GLAZE 100K JA 1/16W	R7228	301 225 0312	MT-GLAZE 33 JA 1/16W
R5613	301 225 0114	MT-GLAZE 27K JA 1/16W	R7229	301 225 0312	MT-GLAZE 33 JA 1/16W
R5614	301 224 9019	MT-GLAZE 10K JA 1/16W	R7231	301 225 0312	MT-GLAZE 33 JA 1/16W
R562	301 225 8110	MT-GLAZE 10 JA 1/16W	R7233	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5621	301 225 1418	MT-GLAZE 47K JA 1/16W	R7234	301 225 8110	MT-GLAZE 10 JA 1/16W
R5623	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R7236	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5624	301 309 4519	MT-GLAZE 22K DA 1/16W	R7237	301 225 8011	MT-GLAZE 330 JA 1/16W
R5626	301 303 4010	MT-GLAZE 1.2K DA 1/16W	R7238	301 226 1516	MT-GLAZE 0.000 ZA 1/16W
R5627	401 344 1914	MT-GLAZE 10K DA 1/16W	R7239	301 224 9514	MT-GLAZE 2.2K JA 1/16W
R5628	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	R7241	301 226 5415	MT-GLAZE 56 JA 1/16W
R5641	301 225 1418	MT-GLAZE 47K JA 1/16W	R7242	301 226 5415	MT-GLAZE 56 JA 1/16W
R5643	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R7243	301 226 5415	MT-GLAZE 56 JA 1/16W
R5644	301 294 3313	MT-GLAZE 15K FA 1/16W	R7244	301 226 5415	MT-GLAZE 56 JA 1/16W
R5646	301 226 1516	MT-GLAZE 0.000 ZA 1/16W	R7246	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5647	301 294 3016	MT-GLAZE 10K FA 1/16W	R7247	301 225 8011	MT-GLAZE 330 JA 1/16W
R5648	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	R7248	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5661	301 225 1418	MT-GLAZE 47K JA 1/16W	R7249	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5663	301 225 0213	MT-GLAZE 3.3K JA 1/16W	R7251	301 225 1210	MT-GLAZE 4.7K JA 1/16W
R5664	301 294 2613	MT-GLAZE 4.7K FA 1/16W	R7252	301 224 8814	MT-GLAZE 100 JA 1/16W
R5666	301 301 8119	MT-GLAZE 3.9K FA 1/16W	R7253	301 224 8814	MT-GLAZE 100 JA 1/16W
R5667	301 294 3016	MT-GLAZE 10K FA 1/16W	R7254	301 224 8814	MT-GLAZE 100 JA 1/16W
R5668	301 035 4111	MT-GLAZE 0.000 ZA 1/8W	R7256	301 224 8814	MT-GLAZE 100 JA 1/16W

Electrical Parts List

Key No. Part No. Description				Key No. Part No. Description			
R7258	301 224 8814	MT-GLAZE	100 JA 1/16W	R8123	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R7261	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R8124	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R7262	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R8128	301 224 9019	MT-GLAZE	10K JA 1/16W
R7271	301 224 9019	MT-GLAZE	10K JA 1/16W	R8129	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7281	301 224 9019	MT-GLAZE	10K JA 1/16W	R8131	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7282	301 263 6928	MT-GLAZE	2K JA 1/16W	R8132	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7283	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R8133	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7284	301 224 9019	MT-GLAZE	10K JA 1/16W	R8134	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7801	301 224 8814	MT-GLAZE	100 JA 1/16W	R839	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R7802	301 224 8814	MT-GLAZE	100 JA 1/16W	R861	301 225 0718	MT-GLAZE	56K JA 1/16W
R7803	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R862	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R7804	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R863	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R7806	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R869	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R7807	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R871	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R7821	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R873	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7822	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R874	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7823	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R876	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7824	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R877	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7826	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R878	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7827	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R879	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7831	301 224 9316	MT-GLAZE	1K JA 1/16W	R8801	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R7832	301 224 9316	MT-GLAZE	1K JA 1/16W	R8802	301 037 5017	MT-GLAZE	0.000 ZA 1/10W
R7833	301 224 9316	MT-GLAZE	1K JA 1/16W	R881	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R7834	301 224 9316	MT-GLAZE	1K JA 1/16W	R8821	301 309 4113	MT-GLAZE	560K DA 1/16W
R7836	301 224 9316	MT-GLAZE	1K JA 1/16W	R8822	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R7837	301 224 9019	MT-GLAZE	10K JA 1/16W	R883	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R7838	301 224 9019	MT-GLAZE	10K JA 1/16W	R8831	301 309 4113	MT-GLAZE	560K DA 1/16W
R7839	301 224 9019	MT-GLAZE	10K JA 1/16W	R8832	301 225 1210	MT-GLAZE	4.7K JA 1/16W
R7841	301 224 9019	MT-GLAZE	10K JA 1/16W	R884	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R7842	301 224 9019	MT-GLAZE	10K JA 1/16W	R8841	301 225 8110	MT-GLAZE	10 JA 1/16W
R7843	301 224 9019	MT-GLAZE	10K JA 1/16W	R8842	301 225 8110	MT-GLAZE	10 JA 1/16W
R7844	301 224 9019	MT-GLAZE	10K JA 1/16W	R8843	301 224 9019	MT-GLAZE	10K JA 1/16W
R7846	301 224 9019	MT-GLAZE	10K JA 1/16W	R8844	301 224 9019	MT-GLAZE	10K JA 1/16W
R7847	301 224 9019	MT-GLAZE	10K JA 1/16W	R885	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R7848	301 224 9019	MT-GLAZE	10K JA 1/16W	R886	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R8001	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	R887	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R8002	301 225 1616	MT-GLAZE	390 JA 1/16W	R888	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R8003	301 224 9019	MT-GLAZE	10K JA 1/16W	R889	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R8004	301 225 0312	MT-GLAZE	33 JA 1/16W	R891	301 226 1516	MT-GLAZE	0.000 ZA 1/16W
R8006	301 225 0312	MT-GLAZE	33 JA 1/16W	R894	301 225 0213	MT-GLAZE	3.3K JA 1/16W
R8007	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB301	945 034 5051	R-NETWORK 22X4	1/32W
R8008	301 224 9019	MT-GLAZE	10K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R801	301 224 9019	MT-GLAZE	10K JA 1/16W	RB302	945 034 5051	R-NETWORK 22X4	1/32W
R8011	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R8012	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB303	945 034 5051	R-NETWORK 22X4	1/32W
R8013	301 224 9019	MT-GLAZE	10K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R8016	301 225 0312	MT-GLAZE	33 JA 1/16W	RB304	945 034 5051	R-NETWORK 22X4	1/32W
R8017	301 225 0312	MT-GLAZE	33 JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R8018	301 225 0312	MT-GLAZE	33 JA 1/16W	RB306	945 034 5051	R-NETWORK 22X4	1/32W
R8019	301 225 0312	MT-GLAZE	33 JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R802	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB307	945 034 5051	R-NETWORK 22X4	1/32W
R803	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R804	301 224 9019	MT-GLAZE	10K JA 1/16W	RB308	945 034 5051	R-NETWORK 22X4	1/32W
R806	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R807	301 224 9019	MT-GLAZE	10K JA 1/16W	RB309	945 034 5051	R-NETWORK 22X4	1/32W
R808	301 224 9019	MT-GLAZE	10K JA 1/16W		945 037 0824	R-NETWORK 22X4	1/16W
R809	301 225 8516	MT-GLAZE	1.8K JA 1/16W	RB3101	645 049 0675	R-NETWORK 33X4	1/32W
R8101	301 225 1210	MT-GLAZE	4.7K JA 1/16W		945 049 0690	R-NETWORK 33X4	1/16W
R8102	301 225 1210	MT-GLAZE	4.7K JA 1/16W	RB3102	645 049 0675	R-NETWORK 33X4	1/32W
R8103	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 049 0690	R-NETWORK 33X4	1/16W
R8104	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB3103	645 049 0675	R-NETWORK 33X4	1/32W
R8111	301 224 9019	MT-GLAZE	10K JA 1/16W		945 049 0690	R-NETWORK 33X4	1/16W
R8112	301 224 9019	MT-GLAZE	10K JA 1/16W	RB3104	645 049 0675	R-NETWORK 33X4	1/32W
R8113	301 224 9019	MT-GLAZE	10K JA 1/16W		945 049 0690	R-NETWORK 33X4	1/16W
R812	301 224 9019	MT-GLAZE	10K JA 1/16W	RB3106	645 049 0675	R-NETWORK 33X4	1/32W
R8121	301 226 1516	MT-GLAZE	0.000 ZA 1/16W		945 049 0690	R-NETWORK 33X4	1/16W
R8122	301 226 1516	MT-GLAZE	0.000 ZA 1/16W	RB3107	645 049 0675	R-NETWORK 33X4	1/32W

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
RB3108	945 049 0690	R-NETWORK 33X4 1/16W	RB7203	945 036 3529	R-NETWORK 0X4 1/32W
	645 049 0675	R-NETWORK 33X4 1/32W		945 037 0817	R-NETWORK 0X4 1/16W
	945 049 0690	R-NETWORK 33X4 1/16W	RB7204	945 036 3529	R-NETWORK 0X4 1/32W
RB3109	645 049 0675	R-NETWORK 33X4 1/32W		945 037 0817	R-NETWORK 0X4 1/16W
	945 049 0690	R-NETWORK 33X4 1/16W	RB7206	945 036 3529	R-NETWORK 0X4 1/32W
RB3111	645 049 0675	R-NETWORK 33X4 1/32W		945 037 0817	R-NETWORK 0X4 1/16W
	945 049 0690	R-NETWORK 33X4 1/16W	RB7207	945 036 3529	R-NETWORK 0X4 1/32W
RB3112	645 049 0675	R-NETWORK 33X4 1/32W		945 037 0817	R-NETWORK 0X4 1/16W
	945 049 0690	R-NETWORK 33X4 1/16W	RB8001	645 049 0675	R-NETWORK 33X4 1/32W
RB3113	645 049 0675	R-NETWORK 33X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 049 0690	R-NETWORK 33X4 1/16W	RB8002	645 049 0675	R-NETWORK 33X4 1/32W
RB3114	645 049 0675	R-NETWORK 33X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 049 0690	R-NETWORK 33X4 1/16W	RB8003	645 049 0675	R-NETWORK 33X4 1/32W
RB3116	645 049 0675	R-NETWORK 33X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 049 0690	R-NETWORK 33X4 1/16W	RB8004	645 049 0675	R-NETWORK 33X4 1/32W
RB401	945 036 0986	R-NETWORK 47X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 037 0831	R-NETWORK 47X4 1/16W	RB8006	645 049 0675	R-NETWORK 33X4 1/32W
RB402	945 036 0986	R-NETWORK 47X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 037 0831	R-NETWORK 47X4 1/16W	RB8007	645 049 0675	R-NETWORK 33X4 1/32W
RB403	945 036 0986	R-NETWORK 47X4 1/32W		945 049 0690	R-NETWORK 33X4 1/16W
	945 037 0831	R-NETWORK 47X4 1/16W	TRANSFORMER		
RB404	945 036 0986	R-NETWORK 47X4 1/32W	T3101	945 076 5019	FILTER,LP 34MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	COIL		
RB406	945 036 0986	R-NETWORK 47X4 1/32W	L1001	945 070 3660	INDUCTOR,90 OHM
	945 037 0831	R-NETWORK 47X4 1/16W	L1002	945 070 3660	INDUCTOR,90 OHM
RB421	945 036 0986	R-NETWORK 47X4 1/32W	L1003	945 070 3660	INDUCTOR,90 OHM
	945 037 0831	R-NETWORK 47X4 1/16W	L1004	945 070 3660	INDUCTOR,90 OHM
RB422	945 036 0986	R-NETWORK 47X4 1/32W	L1021	945 086 7577	FILTER,EMI 400MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	L1022	945 086 7577	FILTER,EMI 400MHZ
RB423	945 036 0986	R-NETWORK 47X4 1/32W	L1023	945 086 7577	FILTER,EMI 400MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	L1024	945 086 7560	FILTER,EMI 200MHZ
RB424	945 036 0986	R-NETWORK 47X4 1/32W	L1026	945 086 7560	FILTER,EMI 200MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	L1031	945 086 7577	FILTER,EMI 400MHZ
RB426	945 036 0986	R-NETWORK 47X4 1/32W	L1032	945 086 7577	FILTER,EMI 400MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	L1033	945 086 7577	FILTER,EMI 400MHZ
RB441	945 036 0986	R-NETWORK 47X4 1/32W	L1034	945 086 7560	FILTER,EMI 200MHZ
	945 037 0831	R-NETWORK 47X4 1/16W	L1036	945 086 7560	FILTER,EMI 200MHZ
RB442	945 036 0986	R-NETWORK 47X4 1/32W	L1091	945 004 6644	INDUCTOR,220 OHM
	945 037 0831	R-NETWORK 47X4 1/16W	L1804	945 059 1748	INDUCTOR,2.2U J
RB443	945 036 0986	R-NETWORK 47X4 1/32W	L3101	945 059 2233	INDUCTOR,10U K
	945 037 0831	R-NETWORK 47X4 1/16W	L3102	945 059 2226	INDUCTOR,1.0U M
RB444	945 036 0986	R-NETWORK 47X4 1/32W	L341	945 002 5205	INDUCTOR,3.3U M
	945 037 0831	R-NETWORK 47X4 1/16W	L351	945 002 5205	INDUCTOR,3.3U M
RB446	945 036 0986	R-NETWORK 47X4 1/32W	L352	945 002 5205	INDUCTOR,3.3U M
	945 037 0831	R-NETWORK 47X4 1/16W	L353	945 002 5205	INDUCTOR,3.3U M
RB501	945 036 3529	R-NETWORK 0X4 1/32W	L354	945 002 5205	INDUCTOR,3.3U M
	945 037 0817	R-NETWORK 0X4 1/16W	L356	945 002 5205	INDUCTOR,3.3U M
RB502	945 036 3529	R-NETWORK 0X4 1/32W	L357	945 002 5205	INDUCTOR,3.3U M
	945 037 0817	R-NETWORK 0X4 1/16W	L361	945 002 5205	INDUCTOR,3.3U M
RB503	945 036 3529	R-NETWORK 0X4 1/32W	L362	945 002 5205	INDUCTOR,3.3U M
	945 037 0817	R-NETWORK 0X4 1/16W	L363	945 002 5205	INDUCTOR,3.3U M
RB531	945 036 3529	R-NETWORK 0X4 1/32W	L366	945 002 5205	INDUCTOR,3.3U M
	945 037 0817	R-NETWORK 0X4 1/16W	L368	945 002 5205	INDUCTOR,3.3U M
RB532	945 036 3529	R-NETWORK 0X4 1/32W	L401	945 086 5368	IMPEDANCE,220 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L402	945 086 5368	IMPEDANCE,220 OHM P
RB533	945 036 3529	R-NETWORK 0X4 1/32W	L4101	945 059 2233	INDUCTOR,10U K
	945 037 0817	R-NETWORK 0X4 1/16W	L4171	945 059 2240	INDUCTOR,2.2U M
RB561	945 036 3529	R-NETWORK 0X4 1/32W	L4172	945 059 2240	INDUCTOR,2.2U M
	945 037 0817	R-NETWORK 0X4 1/16W	L4173	945 059 2240	INDUCTOR,2.2U M
RB562	945 036 3529	R-NETWORK 0X4 1/32W	L4174	945 059 2240	INDUCTOR,2.2U M
	945 037 0817	R-NETWORK 0X4 1/16W	L4176	945 059 2240	INDUCTOR,2.2U M
RB563	945 036 3529	R-NETWORK 0X4 1/32W	L4177	945 059 2240	INDUCTOR,2.2U M
	945 037 0817	R-NETWORK 0X4 1/16W	L4178	945 059 2240	INDUCTOR,2.2U M
RB7201	945 036 3529	R-NETWORK 0X4 1/32W	L4632TM	945 086 5368	IMPEDANCE,220 OHM P
	945 037 0817	R-NETWORK 0X4 1/16W	L5201	645 078 7089	INDUCTOR,33U K
RB7202	945 036 3529	R-NETWORK 0X4 1/32W	L5601	945 059 2240	INDUCTOR,2.2U M
	945 037 0817	R-NETWORK 0X4 1/16W			

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description
L5621	945 079 1469	INDUCTOR,10U M	D5661	307 254 2716	DIODE CMS16
L5622	945 080 6828	INDUCTOR,3.3U M	D5691	307 163 0414	DIODE 1SS352-(TPH3)
L5641	945 079 1469	INDUCTOR,10U M	D6521	307 163 0414	DIODE 1SS352-(TPH3)
L5642	945 059 2240	INDUCTOR,2.2U M	D6522	307 163 0414	DIODE 1SS352-(TPH3)
L5661	945 062 2930	INDUCTOR,10U M	D6551	307 163 0414	DIODE 1SS352-(TPH3)
L5662	945 059 2240	INDUCTOR,2.2U M	D6552	307 163 0414	DIODE 1SS352-(TPH3)
L7261	945 059 2240	INDUCTOR,2.2U M	D6801	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3)
L7271	945 059 2240	INDUCTOR,2.2U M	D6802	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3)
L7281	945 059 2240	INDUCTOR,2.2U M	D6803	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3)
L8001	945 004 6644	INDUCTOR,220 OHM	D7201	307 228 1011	LED SML-310MT-M-T86
L8002	945 004 6644	INDUCTOR,220 OHM	D7281	307 163 0414	DIODE 1SS352-(TPH3)
L8003	945 004 6644	INDUCTOR,220 OHM	D7831	307 163 0414	DIODE 1SS352-(TPH3)
L8004	945 004 6644	INDUCTOR,220 OHM	D7832	307 163 0414	DIODE 1SS352-(TPH3)
L8041	645 049 1672	IMPEDANCE,330 OHM P	D7833	307 163 0414	DIODE 1SS352-(TPH3)
L8161	945 004 6644	INDUCTOR,220 OHM	D7834	307 163 0414	DIODE 1SS352-(TPH3)
DIODE			D7836	307 163 0414	DIODE 1SS352-(TPH3)
D1001	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	D7837	307 163 0414	DIODE 1SS352-(TPH3)
D1002	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	D7838	307 163 0414	DIODE 1SS352-(TPH3)
D1003	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	D7839	307 163 0414	DIODE 1SS352-(TPH3)
D1011	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	D7841	307 163 0414	DIODE 1SS352-(TPH3)
D1024	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	D7842	307 163 0414	DIODE 1SS352-(TPH3)
D1026	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	D8161	307 205 5216	DIODE RB521S-30-TE61
D1034	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	D8162	307 205 5216	DIODE RB521S-30-TE61
D1036	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)	D8163	307 223 1115	ZENER DIODE 02DZ6.2Y(TPH3)
D1041	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3)	D8801	307 163 0414	DIODE 1SS352-(TPH3)
D1042	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3)	D8821	307 224 6515	ZD UDZS4.7B-TE-17
D1091	307 205 5216	DIODE RB521S-30-TE61	D8831	307 224 6515	ZD UDZS4.7B-TE-17
D1092	307 205 5216	DIODE RB521S-30-TE61	MISCELLANEOUS		
D181	307 163 0414	DIODE 1SS352-(TPH3)	IC301A	645 090 0655	CORE,FERRITE
D1834	307 163 0414	DIODE 1SS352-(TPH3)	K10A	945 078 7899	SOCKET,DVI 24P
D1837	307 163 0414	DIODE 1SS352-(TPH3)	K10B	645 089 7696	SOCKET,D-SUB 15P
D2851	307 209 7513	LED SML-210YT T86 L	K10C	945 086 7676	SOCKET,BNC 1P
D2852	307 209 7513	LED SML-210YT T86 L	K10D	645 067 7267	SOCKET,BNC 4P
D2853	307 203 7816	LED SML-210LT T86 M	SC1021	945 076 3503	SURGE-ABSORBER
D2854	307 203 7915	LED SML-210MT T86 M	SC1022	945 076 3503	SURGE-ABSORBER
D2856	307 203 7816	LED SML-210LT T86 M	SC1023	945 076 3503	SURGE-ABSORBER
D2861	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3)	SC1031	945 076 3503	SURGE-ABSORBER
D2862	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3)	SC1032	945 076 3503	SURGE-ABSORBER
D2863	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3)	SC1033	945 076 3503	SURGE-ABSORBER
D2864	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3)	SW6801	945 026 2792	SWITCH,PUSH 1P-1TX1
D2866	307 254 2815	ZENER DIODE 02DZ5.6Y(TPH3)	SW6802	945 026 2792	SWITCH,PUSH 1P-1TX1
D4601	307 163 0414	DIODE 1SS352-(TPH3)	SW6803	945 026 2792	SWITCH,PUSH 1P-1TX1
D4602	307 163 0414	DIODE 1SS352-(TPH3)	SW6804	945 026 2792	SWITCH,PUSH 1P-1TX1
D4603	307 163 0414	DIODE 1SS352-(TPH3)	SW6806	945 026 2792	SWITCH,PUSH 1P-1TX1
D4606	307 163 0414	DIODE 1SS352-(TPH3)	SW6807	945 026 2792	SWITCH,PUSH 1P-1TX1
D4607	307 163 0414	DIODE 1SS352-(TPH3)	SW6808	945 026 2792	SWITCH,PUSH 1P-1TX1
D4608	307 163 0414	DIODE 1SS352-(TPH3)	SW6809	945 026 2792	SWITCH,PUSH 1P-1TX1
D4609	307 163 0414	DIODE 1SS352-(TPH3)	SW6811	945 026 2792	SWITCH,PUSH 1P-1TX1
D4611	307 163 0414	DIODE 1SS352-(TPH3)	SW6812	945 026 2792	SWITCH,PUSH 1P-1TX1
D4621	307 163 0414	DIODE 1SS352-(TPH3)	SWRST	945 026 2792	SWITCH,PUSH 1P-1TX1
D4622	307 163 0414	DIODE 1SS352-(TPH3)	X101	945 041 3842	OSC,CRYSTAL 4MHZ
D4801	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3)	X1801	945 076 0311	OSC,CRYSTAL 48MHZ
D4802	307 254 2914	ZENER DIODE 02DZ6.8Y(TPH3)	X3101	945 076 5194	OSC,CRYSTAL 79.991883MHZ
D5101	307 163 0414	DIODE 1SS352-(TPH3)	X3102	945 076 5194	OSC,CRYSTAL 79.991883MHZ
D5111	307 163 0414	DIODE 1SS352-(TPH3)	X341	945 088 7179	OSC,CRYSTAL 27.0MHZ
D5201	307 210 5416	DIODE RB551V-30-TE-17	910 330 5067 ASSY,PWB,AV MZ7A		
D5202	307 210 5416	DIODE RB551V-30-TE-17	TRANSISTOR		
D5203	307 210 5416	DIODE RB551V-30-TE-17	Q2001	305 014 4512	TR 2SC2412K T146 R
D5204	307 210 5416	DIODE RB551V-30-TE-17		305 014 4611	TR 2SC2412K T146 S
D5251	307 163 0414	DIODE 1SS352-(TPH3)		305 015 8727	TR 2SC2812-L6-TB
D5501	307 163 0414	DIODE 1SS352-(TPH3)		305 015 8925	TR 2SC2812-L7-TB
D5502	307 163 0414	DIODE 1SS352-(TPH3)		305 163 1615	TR 2SC2812N-L6-TB0
D5561	307 163 0414	DIODE 1SS352-(TPH3)		305 173 9816	TR 2SC3928A1R
D5562	307 163 0414	DIODE 1SS352-(TPH3)			
D5621	307 254 2716	DIODE CMS16			
D5641	307 254 2716	DIODE CMS16			

Electrical Parts List

Key No. Part No. Description			Key No. Part No. Description		
Q2011	305 173 9915	TR 2SC3928A1S	IC5001	309 564 1519	IC NJW1141M
	305 014 4512	TR 2SC2412K T146 R	CAPACITOR		
	305 014 4611	TR 2SC2412K T146 S	C2001	303 358 3215	CERAMIC 10U K 6.3V
	305 015 8727	TR 2SC2812-L6-TB		303 368 7319	CERAMIC 10U K 6.3V
	305 015 8925	TR 2SC2812-L7-TB	C2002	303 367 0410	CERAMIC 0.1U K 50V
Q2021	305 163 1615	TR 2SC2812N-L6-TB0	C2011	303 367 0410	CERAMIC 0.1U K 50V
	305 173 9816	TR 2SC3928A1R	C2012	303 367 0410	CERAMIC 0.1U K 50V
	305 173 9915	TR 2SC3928A1S	C2021	303 358 3215	CERAMIC 10U K 6.3V
	305 014 4512	TR 2SC2412K T146 R		303 368 7319	CERAMIC 10U K 6.3V
	305 014 4611	TR 2SC2412K T146 S	C2022	303 367 0410	CERAMIC 0.1U K 50V
Q2071	305 015 8727	TR 2SC2812-L6-TB	C2031	303 367 0410	CERAMIC 0.1U K 50V
	305 015 8925	TR 2SC2812-L7-TB	C2061	303 157 3614	CERAMIC 100P J 50V
	305 163 1615	TR 2SC2812N-L6-TB0	C2062	303 157 3614	CERAMIC 100P J 50V
	305 173 9816	TR 2SC3928A1R	C2071	303 367 0410	CERAMIC 0.1U K 50V
	305 173 9915	TR 2SC3928A1S	C2072	303 372 7510	CERAMIC 2.2U K 6.3V
Q5031	305 014 4512	TR 2SC2412K T146 R	C2073	303 367 0410	CERAMIC 0.1U K 50V
	305 014 4611	TR 2SC2412K T146 S	C2096	303 367 0410	CERAMIC 0.1U K 50V
	305 015 8727	TR 2SC2812-L6-TB	C4001	303 367 0410	CERAMIC 0.1U K 50V
	305 015 8925	TR 2SC2812-L7-TB	C4002	303 367 0410	CERAMIC 0.1U K 50V
	305 163 1615	TR 2SC2812N-L6-TB0	C4003	303 367 0410	CERAMIC 0.1U K 50V
Q5032	305 173 9816	TR 2SC3928A1R	C4004	303 367 0410	CERAMIC 0.1U K 50V
	305 173 9915	TR 2SC3928A1S	C4006	303 367 0410	CERAMIC 0.1U K 50V
	305 014 4512	TR 2SC2412K T146 R	C4007	303 358 3215	CERAMIC 10U K 6.3V
	305 014 4611	TR 2SC2412K T146 S		303 368 7319	CERAMIC 10U K 6.3V
	305 015 8727	TR 2SC2812-L6-TB	C4008	303 367 0410	CERAMIC 0.1U K 50V
Q5041	305 015 8925	TR 2SC2812-L7-TB	C4009	303 358 3215	CERAMIC 10U K 6.3V
	305 163 1615	TR 2SC2812N-L6-TB0		303 368 7319	CERAMIC 10U K 6.3V
	305 173 9816	TR 2SC3928A1R	C4011	303 367 0410	CERAMIC 0.1U K 50V
	305 173 9915	TR 2SC3928A1S	C4051	303 157 6615	CERAMIC 470P K 50V
	305 014 4512	TR 2SC2412K T146 R	C4052	303 367 0410	CERAMIC 0.1U K 50V
Q5042	305 014 4611	TR 2SC2412K T146 S	C4053	303 398 4111	ELECT 47U M 16V
	305 015 8727	TR 2SC2812-L6-TB	C4061	303 367 0410	CERAMIC 0.1U K 50V
	305 015 8925	TR 2SC2812-L7-TB	C4091	303 367 0410	CERAMIC 0.1U K 50V
	305 163 1615	TR 2SC2812N-L6-TB0	C4092	303 367 0410	CERAMIC 0.1U K 50V
	305 173 9816	TR 2SC3928A1R	C4093	303 367 0410	CERAMIC 0.1U K 50V
Q5046	305 173 9915	TR 2SC3928A1S	C5001	303 367 0410	CERAMIC 0.1U K 50V
	305 014 4512	TR 2SC2412K T146 R	C5002	303 367 0410	CERAMIC 0.1U K 50V
	305 014 4611	TR 2SC2412K T146 S	C5003	303 367 0410	CERAMIC 0.1U K 50V
	305 015 8727	TR 2SC2812-L6-TB	C5004	303 215 2214	CERAMIC 0.01U K 50V
	305 015 8925	TR 2SC2812-L7-TB	C5006	303 113 4112	CERAMIC 2200P K 50V
Q5047	305 163 1615	TR 2SC2812N-L6-TB0	C5007	303 367 0410	CERAMIC 0.1U K 50V
	305 173 9816	TR 2SC3928A1R	C5008	303 358 8319	CERAMIC 1U K 10V
	305 173 9915	TR 2SC3928A1S	C5009	303 358 8319	CERAMIC 1U K 10V
	305 014 4512	TR 2SC2412K T146 R	C5011	303 367 0410	CERAMIC 0.1U K 50V
	305 014 4611	TR 2SC2412K T146 S	C5012	303 367 0410	CERAMIC 0.1U K 50V
Q5047	305 015 8727	TR 2SC2812-L6-TB	C5013	303 367 0410	CERAMIC 0.1U K 50V
	305 015 8925	TR 2SC2812-L7-TB	C5014	303 215 2214	CERAMIC 0.01U K 50V
	305 163 1615	TR 2SC2812N-L6-TB0	C5016	303 113 4112	CERAMIC 2200P K 50V
	305 173 9816	TR 2SC3928A1R	C5017	303 367 0410	CERAMIC 0.1U K 50V
	305 173 9915	TR 2SC3928A1S	C5021	303 374 4210	CERAMIC 0.33U K 10V
Q5047	305 014 4512	TR 2SC2412K T146 R	C5022	303 358 8319	CERAMIC 1U K 10V
	305 014 4611	TR 2SC2412K T146 S	C5023	303 358 8319	CERAMIC 1U K 10V
	305 015 8727	TR 2SC2812-L6-TB	C5024	303 358 8319	CERAMIC 1U K 10V
	305 015 8925	TR 2SC2812-L7-TB	C5026	303 367 0410	CERAMIC 0.1U K 50V
	305 163 1615	TR 2SC2812N-L6-TB0	C5031	303 367 0410	CERAMIC 0.1U K 50V
Q5047	305 173 9816	TR 2SC3928A1R	C5032	303 367 0410	CERAMIC 0.1U K 50V
	305 173 9915	TR 2SC3928A1S	C5041	303 367 0410	CERAMIC 0.1U K 50V
	305 014 4512	TR 2SC2412K T146 R	C5042	303 391 5511	ELECT 10U M 16V
	305 014 4611	TR 2SC2412K T146 S	C5046	303 367 0410	CERAMIC 0.1U K 50V
	305 015 8727	TR 2SC2812-L6-TB	C5047	303 391 5511	ELECT 10U M 16V
Q5047	305 015 8925	TR 2SC2812-L7-TB	RESISTOR		
	305 163 1615	TR 2SC2812N-L6-TB0	R2001	301 260 4115	MT-GLAZE 75 JA 1/3W
	305 173 9816	TR 2SC3928A1R	R2002	301 256 6314	MT-GLAZE 47K JA 1/10W
	305 173 9915	TR 2SC3928A1S	R2003	301 256 5317	MT-GLAZE 56K JA 1/10W
	IC4011	310 348 7501	IC TC7WT241FU(TE12L)	R2004	301 162 3612
			R2006	301 150 6212	MT-GLAZE 1K JA 1/10W

Electrical Parts List

Key No. Part No. Description				Key No. Part No. Description			
R2007	301 255 6513	MT-GLAZE	100 JA 1/10W	R5033	301 150 6212	MT-GLAZE	1K JA 1/10W
R2011	301 260 4115	MT-GLAZE	75 JA 1/3W	R5036	301 162 3612	MT-GLAZE	470 JA 1/10W
R2012	301 256 6314	MT-GLAZE	47K JA 1/10W	R5037	301 162 2417	MT-GLAZE	1.2K JA 1/10W
R2013	301 256 5317	MT-GLAZE	56K JA 1/10W	R5038	301 150 6212	MT-GLAZE	1K JA 1/10W
R2014	301 162 3612	MT-GLAZE	470 JA 1/10W	R5041	301 150 6212	MT-GLAZE	1K JA 1/10W
R2016	301 150 6212	MT-GLAZE	1K JA 1/10W	R5042	301 162 2417	MT-GLAZE	1.2K JA 1/10W
R2017	301 255 6513	MT-GLAZE	100 JA 1/10W	R5043	301 162 2417	MT-GLAZE	1.2K JA 1/10W
R2021	301 260 4115	MT-GLAZE	75 JA 1/3W	R5044	301 150 6212	MT-GLAZE	1K JA 1/10W
R2022	301 256 6314	MT-GLAZE	47K JA 1/10W	R5045	301 150 6212	MT-GLAZE	1K JA 1/10W
R2023	301 256 5317	MT-GLAZE	56K JA 1/10W	R5046	301 150 6212	MT-GLAZE	1K JA 1/10W
R2024	301 162 3612	MT-GLAZE	470 JA 1/10W	R5047	301 162 2417	MT-GLAZE	1.2K JA 1/10W
R2026	301 150 6212	MT-GLAZE	1K JA 1/10W	R5048	301 162 2417	MT-GLAZE	1.2K JA 1/10W
R2027	301 255 6513	MT-GLAZE	100 JA 1/10W	R5049	301 150 6212	MT-GLAZE	1K JA 1/10W
R2031	301 255 6513	MT-GLAZE	100 JA 1/10W	COIL			
R2051	301 150 5819	MT-GLAZE	100K JA 1/10W	L2001	945 086 7461	FILTER,EMI 100MHZ	
R2052	301 150 5819	MT-GLAZE	100K JA 1/10W	L2011	945 086 7461	FILTER,EMI 100MHZ	
R2053	301 150 5819	MT-GLAZE	100K JA 1/10W	L2021	945 086 7461	FILTER,EMI 100MHZ	
R2054	301 150 5819	MT-GLAZE	100K JA 1/10W	L2031	945 086 7461	FILTER,EMI 100MHZ	
R2056	301 150 5819	MT-GLAZE	100K JA 1/10W	L2051	945 086 7454	FILTER,EMI 50MHZ	
R2057	301 150 5819	MT-GLAZE	100K JA 1/10W	L2052	945 086 7454	FILTER,EMI 50MHZ	
R2061	301 255 6513	MT-GLAZE	100 JA 1/10W	L2053	945 086 7454	FILTER,EMI 50MHZ	
R2062	301 255 6513	MT-GLAZE	100 JA 1/10W	L2054	945 086 7454	FILTER,EMI 50MHZ	
R2063	301 150 5819	MT-GLAZE	100K JA 1/10W	L2056	945 086 7454	FILTER,EMI 50MHZ	
R2064	301 150 5819	MT-GLAZE	100K JA 1/10W	L2057	945 086 7454	FILTER,EMI 50MHZ	
R2071	301 150 5819	MT-GLAZE	100K JA 1/10W	L2061	945 086 7454	FILTER,EMI 50MHZ	
R2072	301 150 5819	MT-GLAZE	100K JA 1/10W	L2062	945 086 7454	FILTER,EMI 50MHZ	
R2073	301 255 6018	MT-GLAZE	1M JA 1/10W	L2091	945 086 7454	FILTER,EMI 50MHZ	
R2074	301 162 3018	MT-GLAZE	22K JA 1/10W	L2093	945 086 7454	FILTER,EMI 50MHZ	
R2076	301 255 6513	MT-GLAZE	100 JA 1/10W	L4001	945 086 7577	FILTER,EMI 400MHZ	
R2091	301 150 5918	MT-GLAZE	10K JA 1/10W	L4002	945 086 7577	FILTER,EMI 400MHZ	
R2092	301 255 6513	MT-GLAZE	100 JA 1/10W	L4003	945 086 7577	FILTER,EMI 400MHZ	
R2093	301 255 6513	MT-GLAZE	100 JA 1/10W	L4004	945 086 7577	FILTER,EMI 400MHZ	
R2096	301 255 6513	MT-GLAZE	100 JA 1/10W	L4006	945 086 7577	FILTER,EMI 400MHZ	
R2097	301 150 5819	MT-GLAZE	100K JA 1/10W	L4031	945 086 7454	FILTER,EMI 50MHZ	
R4001	301 265 4912	MT-GLAZE	75 FA 1/10W	L4032	945 086 7454	FILTER,EMI 50MHZ	
R4002	301 265 4912	MT-GLAZE	75 FA 1/10W	L4042	945 070 3660	INDUCTOR,90 OHM	
R4003	301 265 4912	MT-GLAZE	75 FA 1/10W	L4091	945 086 5368	IMPEDANCE,220 OHM P	
R4004	301 265 4912	MT-GLAZE	75 FA 1/10W	L4092	945 086 5368	IMPEDANCE,220 OHM P	
R4006	301 265 4912	MT-GLAZE	75 FA 1/10W	L4093	945 086 5368	IMPEDANCE,220 OHM P	
R4007	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	DIODE			
R4008	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	D2031	307 221 7119	ZENER DIODE UDZS-TE-1712B	
R4011	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	D2071	307 163 0414	DIODE 1SS352-(TPH3)	
R4031	301 255 6513	MT-GLAZE	100 JA 1/10W	D2091	307 223 7315	PC TLP421F(D4-GB-TP4)	
R4032	301 255 6513	MT-GLAZE	100 JA 1/10W	D2092	307 209 1214	ZD UDZS-TE-176.2B	
R4041	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	D2093	307 209 1214	ZD UDZS-TE-176.2B	
R4042	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	D2097	307 209 1214	ZD UDZS-TE-176.2B	
R4051	301 255 6513	MT-GLAZE	100 JA 1/10W	D4041	307 209 1214	ZD UDZS-TE-176.2B	
R4052	301 256 5614	MT-GLAZE	47 JA 1/10W	D5041	307 163 0414	DIODE 1SS352-(TPH3)	
R4061	301 255 6513	MT-GLAZE	100 JA 1/10W	D5046	307 163 0414	DIODE 1SS352-(TPH3)	
R4064	301 150 6014	MT-GLAZE	0.000 ZA 1/10W	MISCELLANEOUS			
R4071	301 162 2219	MT-GLAZE	10 JA 1/10W	A4051	945 082 0466	UNIT,REMOCON RECEIVER	
R5001	301 255 6513	MT-GLAZE	100 JA 1/10W	K20A	945 067 6124	TERMINAL,BOARD	
R5002	301 256 6314	MT-GLAZE	47K JA 1/10W	K20B	945 076 2735	JACK,RCA-2	
R5003	301 255 6513	MT-GLAZE	100 JA 1/10W	K20C	945 076 2742	JACK,PHON D3.6	
R5004	301 256 6314	MT-GLAZE	47K JA 1/10W	K20D	945 076 2742	JACK,PHON D3.6	
R5006	301 255 6513	MT-GLAZE	100 JA 1/10W	K40A	645 089 7702	SOCKET,D-SUB 15P	
R5007	301 256 6314	MT-GLAZE	47K JA 1/10W	K40B	945 041 1077	SOCKET,DIN 8P	
R5008	301 255 6513	MT-GLAZE	100 JA 1/10W	K40C	645 075 1752	SOCKET,USB 4P	
R5009	301 256 6314	MT-GLAZE	47K JA 1/10W	K40D	945 087 1208	PLUG,D-SUB 25P	
R5011	301 255 6513	MT-GLAZE	100 JA 1/10W	SC2001	945 076 3503	SURGE-ABSORBER	
R5012	301 256 6314	MT-GLAZE	47K JA 1/10W	SC2011	945 076 3503	SURGE-ABSORBER	
R5013	301 255 6513	MT-GLAZE	100 JA 1/10W	SC2021	945 076 3503	SURGE-ABSORBER	
R5014	301 256 6314	MT-GLAZE	47K JA 1/10W	SC2051	945 076 3503	SURGE-ABSORBER	
R5021	301 256 2910	MT-GLAZE	150 JA 1/10W	SC2052	945 076 3503	SURGE-ABSORBER	
R5022	301 256 2910	MT-GLAZE	150 JA 1/10W	SC2053	945 076 3503	SURGE-ABSORBER	
R5031	301 162 3612	MT-GLAZE	470 JA 1/10W				
R5032	301 162 2417	MT-GLAZE	1.2K JA 1/10W				

Electrical Parts List

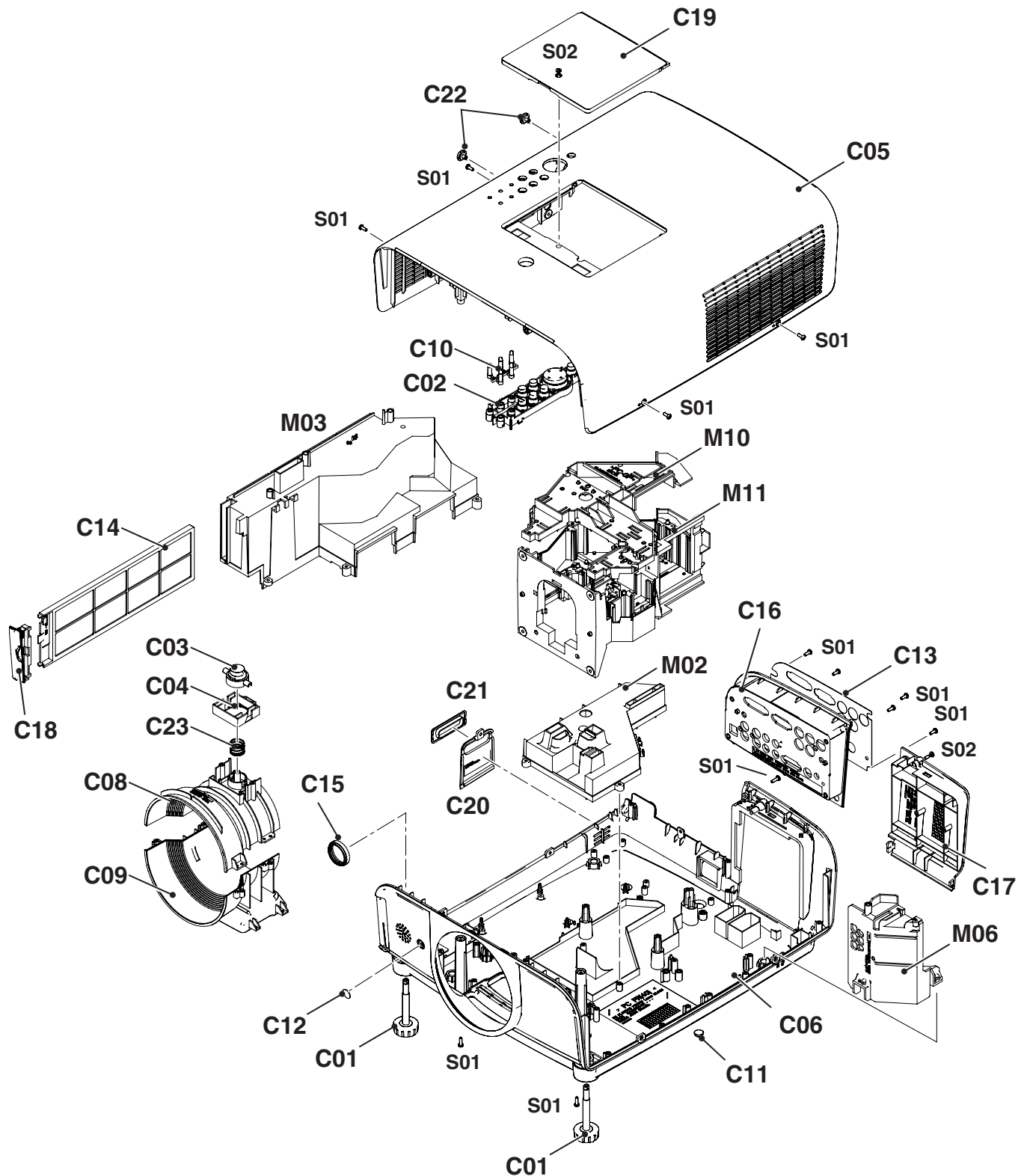
Key No.	Part No.	Description	Key No.	Part No.	Description
SC2054	945 076 3503	SURGE-ABSORBER	MISCELLANEOUS		
SC2056	945 076 3503	SURGE-ABSORBER	A2821	945 082 0466	UNIT,REMOCON RECEIVER
SC2057	945 076 3503	SURGE-ABSORBER	PACKING MATERIALS		
SC4031	945 076 3503	SURGE-ABSORBER	For Model PLC-XT25		
SC4032	945 076 3503	SURGE-ABSORBER	610 331 3030		SPACER LNS PACKING MZ7A
SC4041	945 076 3503	SURGE-ABSORBER	910 330 7351		CARTON CASE COM-MZ7A
SC4042	945 076 3503	SURGE-ABSORBER	For Model PLC-XT25L		
SC4061	945 076 3503	SURGE-ABSORBER	910 330 7351		CARTON CASE COM-MZ7A
SC4071	945 076 3503	SURGE-ABSORBER	For Model PLC-XT20		
SC4072	945 076 3503	SURGE-ABSORBER	610 331 3030		SPACER LNS PACKING MZ7A
SC4073	945 076 3503	SURGE-ABSORBER	910 330 7351		CARTON CASE COM-MZ7A
SC4074	945 076 3503	SURGE-ABSORBER	For Model PLC-XT20L		
SC4076	945 076 3503	SURGE-ABSORBER	910 330 7351		CARTON CASE COM-MZ7A
SC4077	945 076 3503	SURGE-ABSORBER	610 331 3016		CASE ACCESSORY-MZ7A
SC4078	945 076 3503	SURGE-ABSORBER	610 331 2842		CUSHION FNT-MZ7A
SC4079	945 076 3503	SURGE-ABSORBER	945 084 8644		POLY BAG-0700X0600*NC
SW4061	945 010 7659	SWITCH,PUSH 1P-1TX1	ACCESSORIES		
910 330 5159 ASSY,PWB,NETWORK JOINT MZ			OWNER'S MANUAL		
TRANSISTOR			910 330 8846		SETUP INST MANUAL-MZ7A
Q3031	305 014 4512	TR 2SC2412K T146 R	945 088 7438		CD-ROM,OWNERS MANUAL-MZ7A
	305 014 4611	TR 2SC2412K T146 S	REMOTE CONTROL		
	305 015 8727	TR 2SC2812-L6-TB	945 087 1468		ASSY,REMOCON CXTK
	305 015 8925	TR 2SC2812-L7-TB	910 319 1820		RC-BATTERY LID-CXSP
	305 163 1615	TR 2SC2812N-L6-TB0	AC CORD		
	305 173 9816	TR 2SC3928A1R	US	945 064 6363	CORD,POWER-3.0MK,US
	305 173 9915	TR 2SC3928A1S	EU	945 054 1156	CORD,POWER-3.0MK
INTEGRATED CIRCUIT			UK	945 054 1148	CORD,POWER-3.138MK
IC3031	309 588 6316	IC BA33BC0FP	MISCELLANEOUS		
IC3041	309 591 8611	IC BA50BC0FP	945 063 6937		CABLE,USB
CAPACITOR			945 063 6944		CABLE,USB
C3021	303 367 0410	CERAMIC	945 073 4855		CABLE,INTERFACE VGA
C3022	303 392 1215	ELECT			
C3031	303 367 0410	CERAMIC			
C3032	303 392 1215	ELECT			
C3033	303 367 0410	CERAMIC			
C3034	303 367 0410	CERAMIC			
C3035TM	303 414 7624	ELECT			
C3041	303 367 0410	CERAMIC			
C3042	303 392 1215	ELECT			
C3043	303 367 0410	CERAMIC			
RESISTOR					
R3021	301 162 2219	MT-GLAZE	10 JA	1/10W	
R3031	301 150 5918	MT-GLAZE	10K JA	1/10W	
R3032	301 150 5918	MT-GLAZE	10K JA	1/10W	
COIL					
L3031	945 086 5368	IMPEDANCE,220 OHM P			
DIODE					
D3031	307 205 5216	DIODE RB521S-30-TE61			
D3041	307 163 0414	DIODE 1SS352-(TPH3)			
910 330 5166 ASSY,PWB,R/C. FRONT MZ7A					
CAPACITOR					
C2821	303 398 4111	ELECT	47U M	16V	
C2822	303 157 6615	CERAMIC	470P K	50V	
C2823	303 358 8319	CERAMIC	1U K	10V	
RESISTOR					
R2821	301 256 5614	MT-GLAZE	47 JA	1/10W	
R2822	301 162 2219	MT-GLAZE	10 JA	1/10W	

Electrical Parts List

Key No.	Part No.	Description	Key No.	Part No.	Description

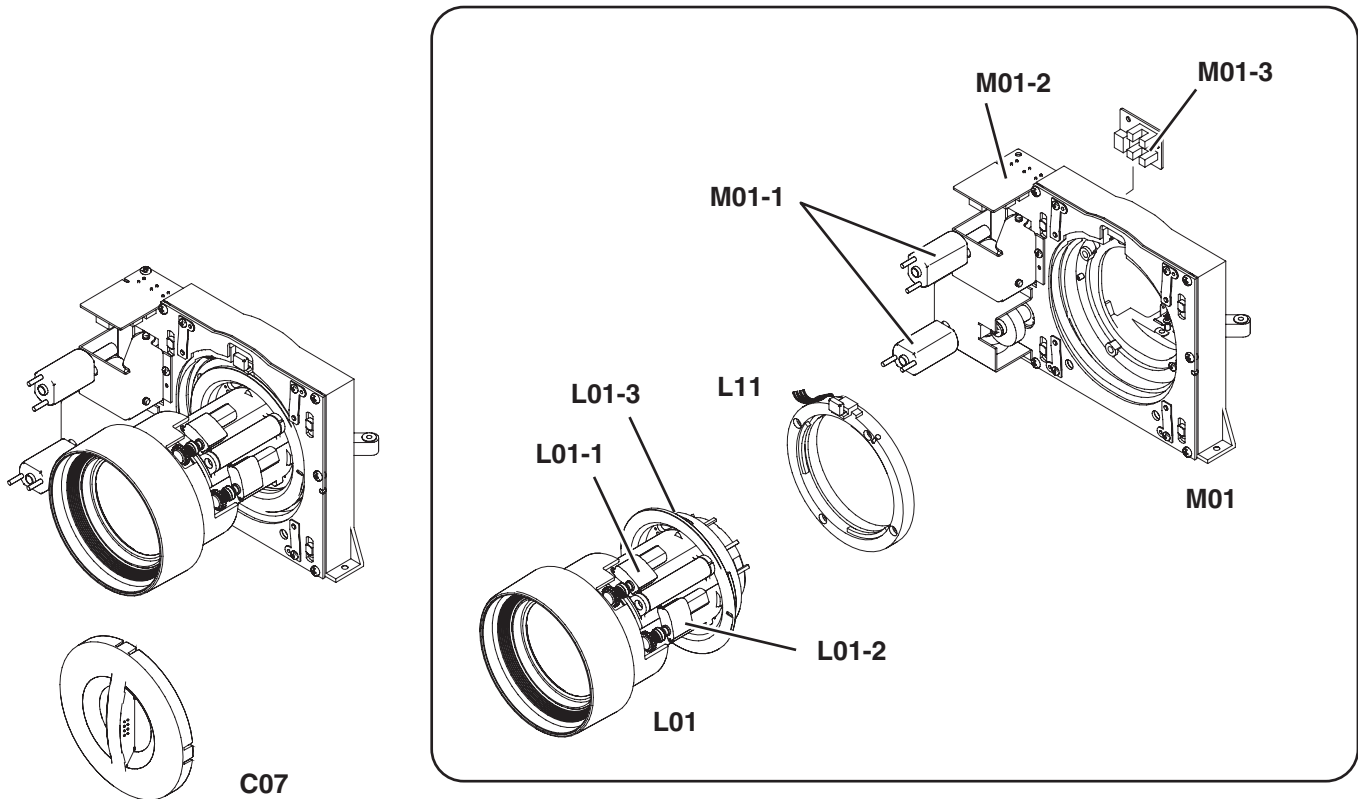
Mechanical Parts List

Cabinet Parts Location

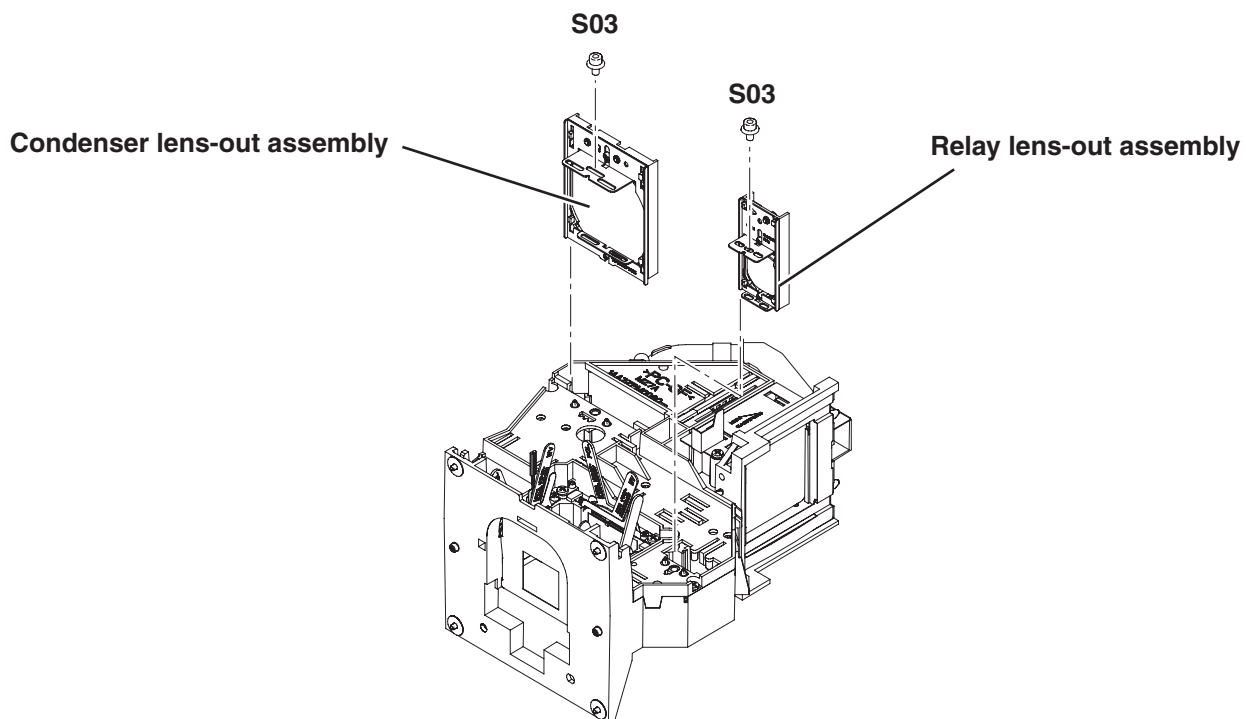


Mechanical Parts List

Optical engine_Lens shift assembly

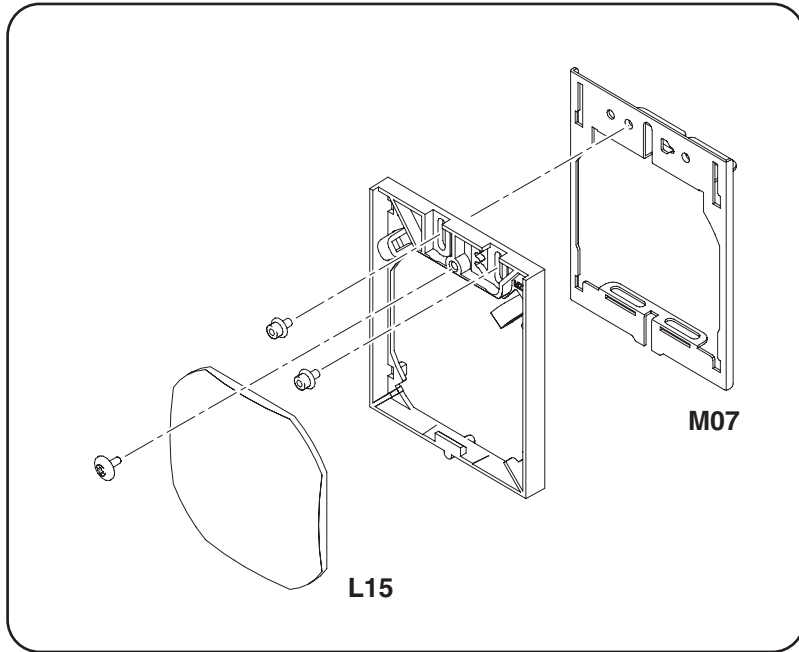
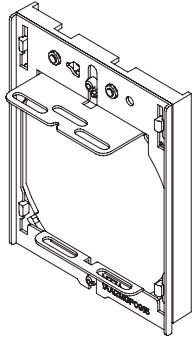


Optical engine_Lens assembly

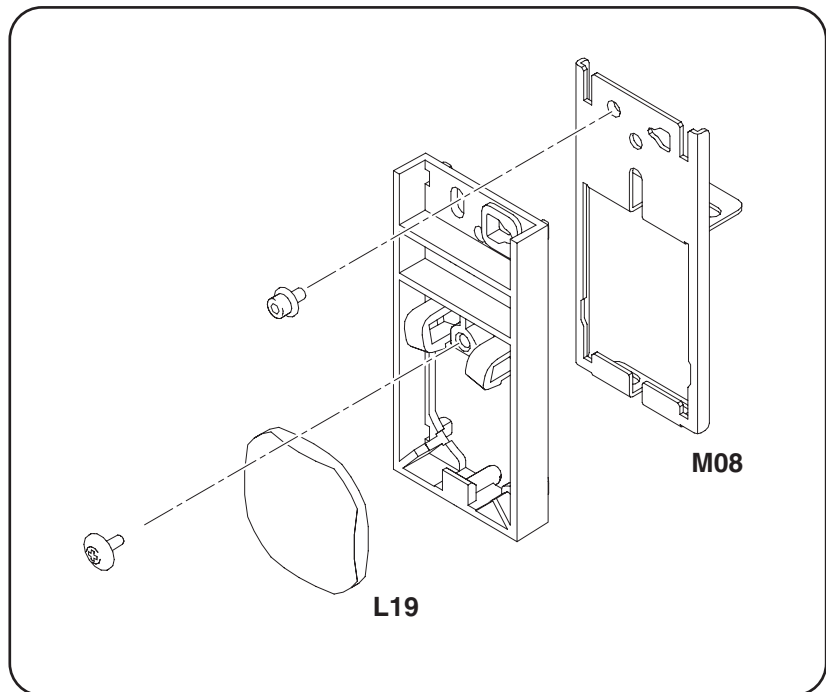
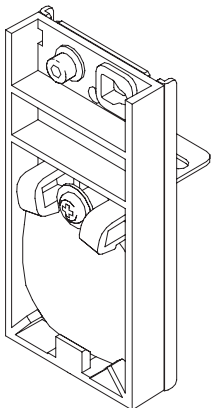


Mechanical Parts List

Condenser lens-out assembly

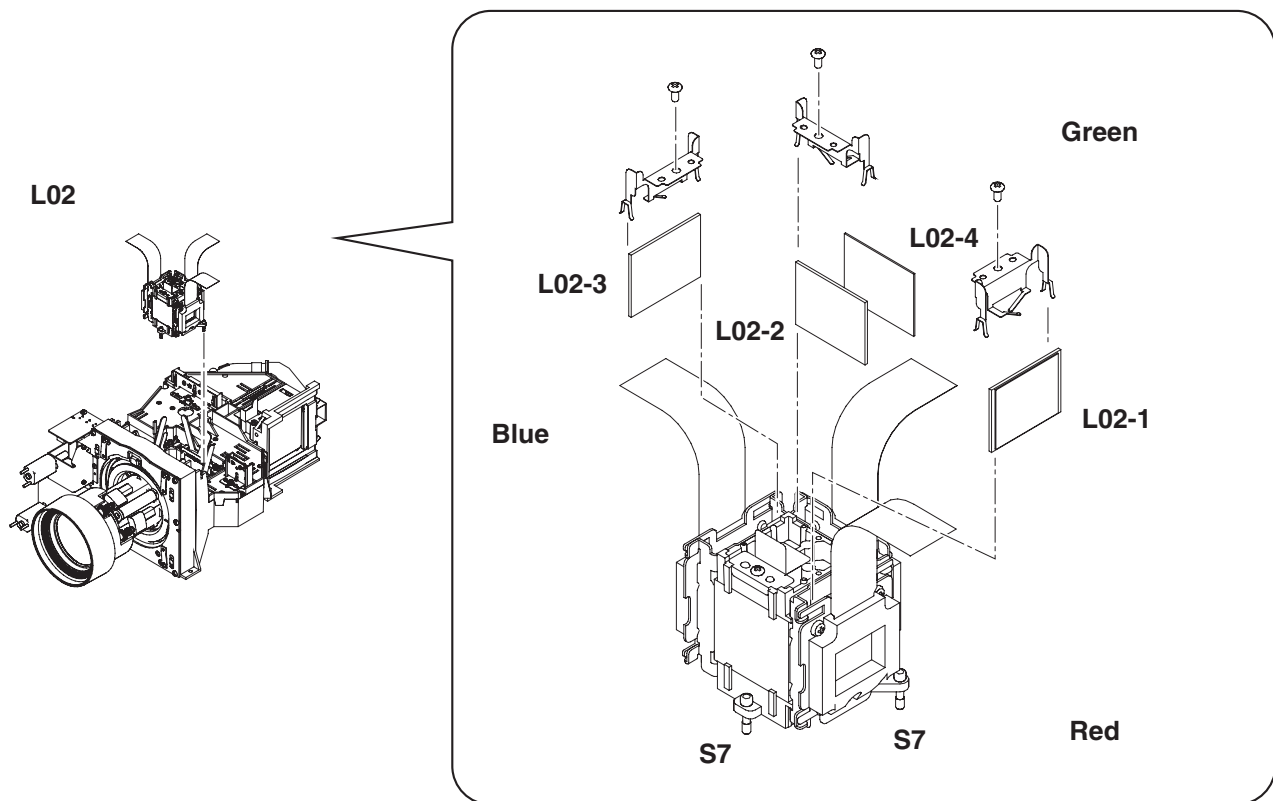


Relay lens-out assembly



Mechanical Parts List

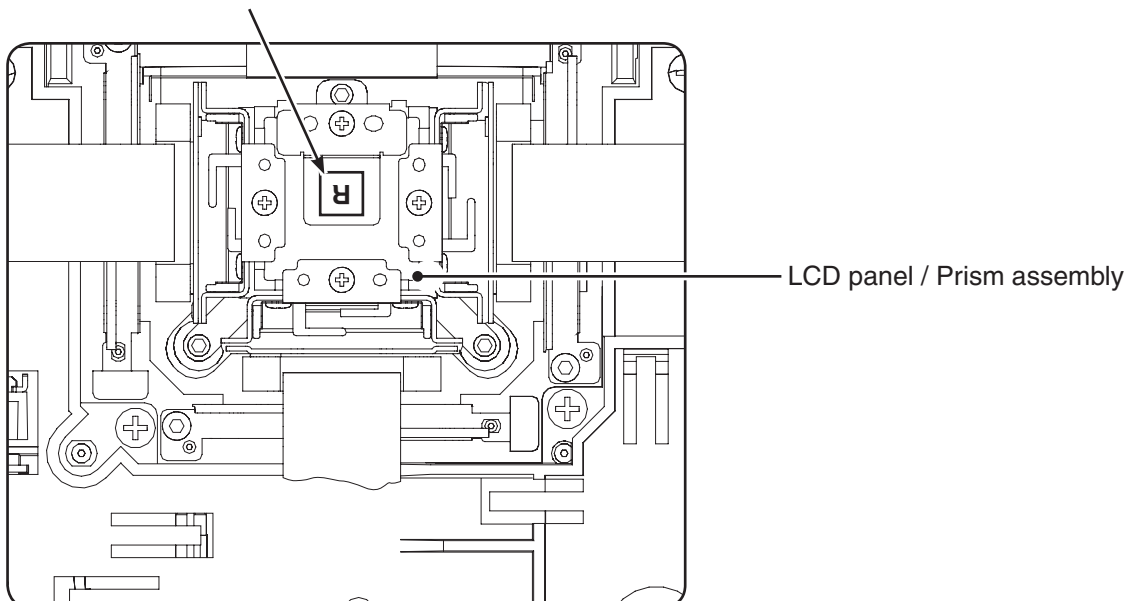
LCD panel / Prism assembly



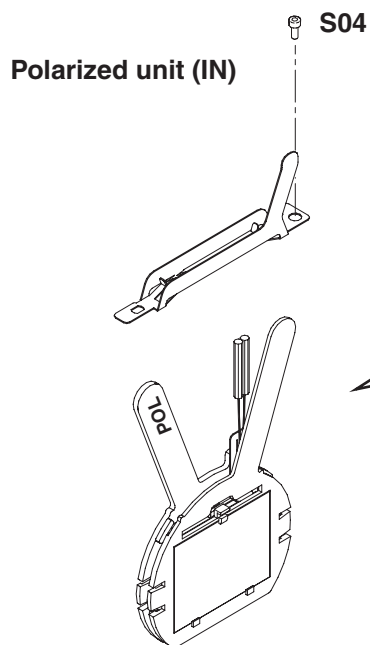
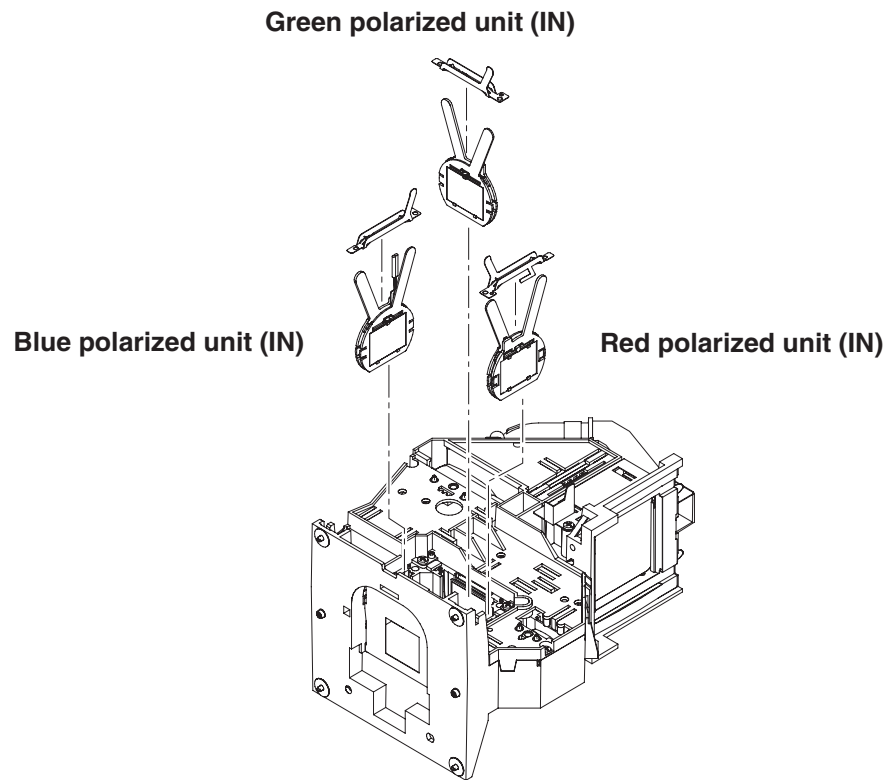
Note:

There are 2 types of LCD panel/prism assembly, named Type-R and Type-L. When replacing the LCD panel/prism assembly, replace them with the same type. The type indication label is attached on top of the LCD panel/prism assembly as shown in the below.

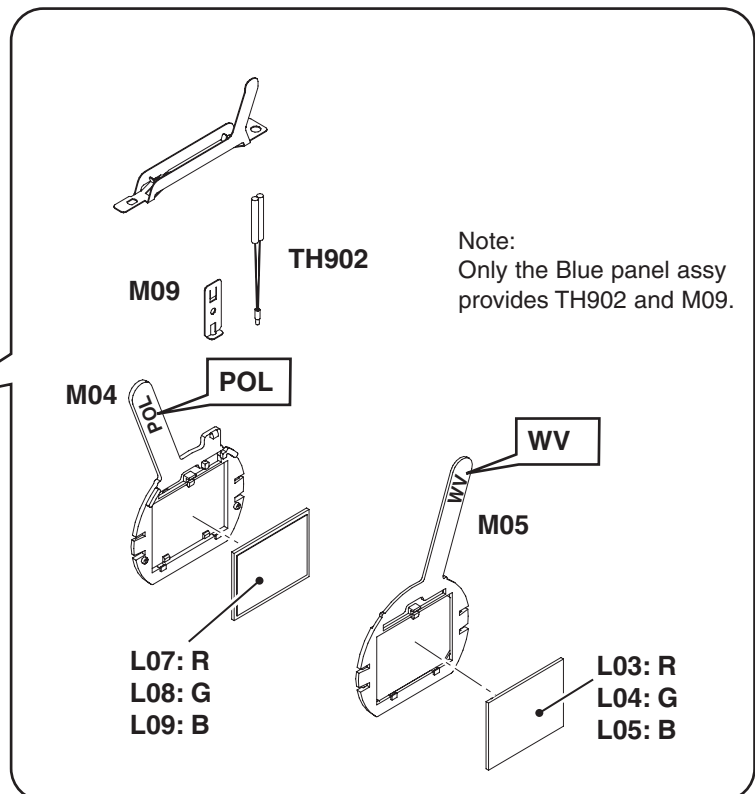
Indication of the Type



Mechanical Parts List

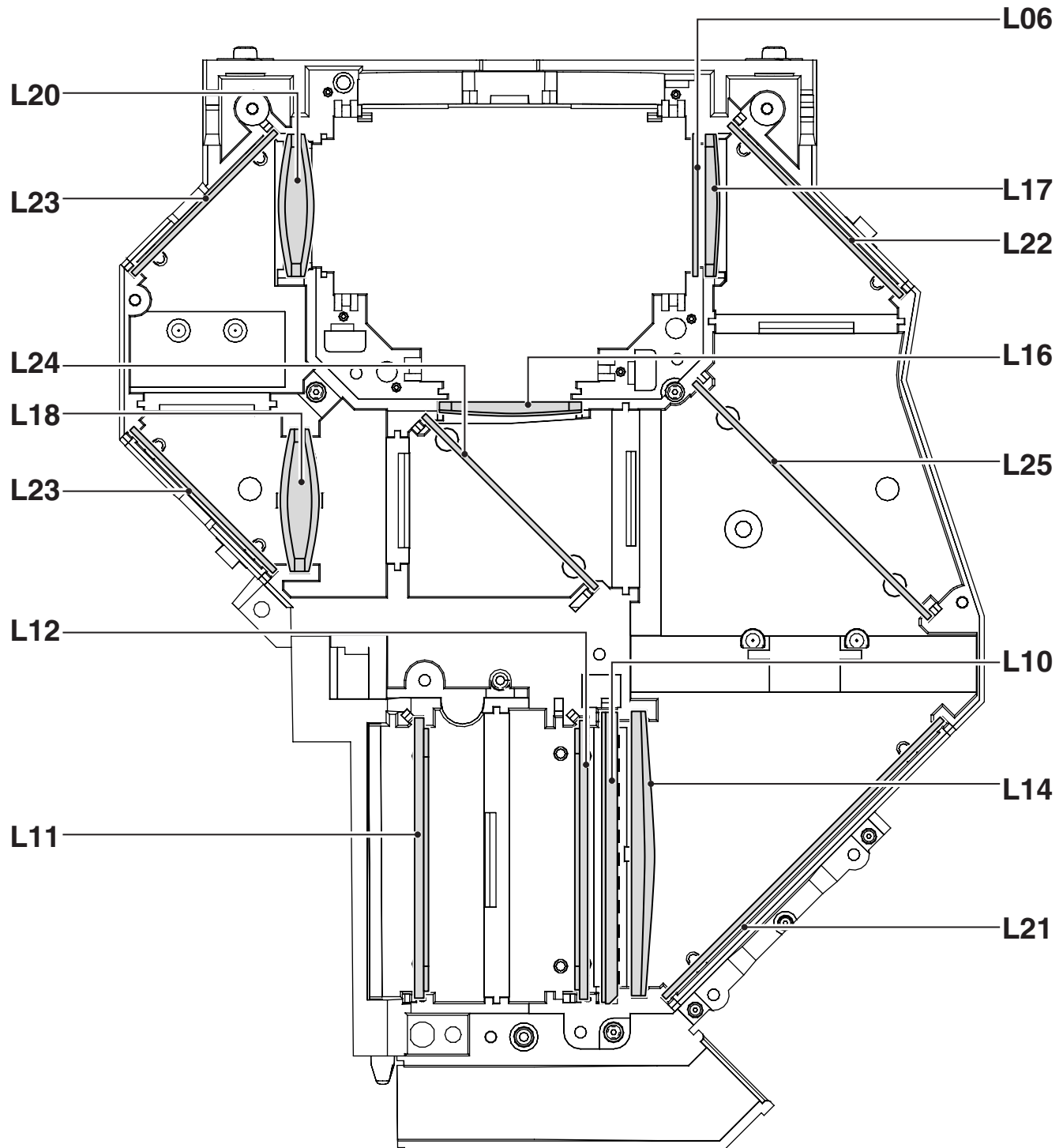


Note:
L03, L04 and L05 differ with parts according to
type of LCD panel/prism assembly.



Mechanical Parts List

In the Optical Unit



Mechanical Parts List

Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

Key No. Part No. Description			Key No. Part No. Description		
CABINET PARTS			L02-2	945 088 7575	POLARIZED GLASS(OUT/G)
C01	910 330 7566	ASSY,STAND LEG-MZ7A	L02-3	645 090 1942	POLARIZED GLASS(OUT/B)
C02	910 330 7269	BUTTON CTRL-MZ7A	L02-4	645 090 2307	PREPOLARIZED GLASS(OUT)
C03	910 330 7559	BUTTON LNS A-MZ7A	Parts for Type-L LCD Panel/Prism Ass'y		
C04	910 330 7535	BUTTON LNS B-MZ7A	L03	645 090 2680	OPTICAL FILTER (HCP)R
C05	910 330 7306	CABINET TOP-MZ7A	L04	645 090 2697	OPTICAL FILTER (HCP)L
C06	910 330 7245	CABINET BOTTOM-MZ7A	L05	645 090 2680	OPTICAL FILTER (HCP)R
C07	910 301 4990	CAP LNS-MC3A	Parts for Type-R LCD Panel/Prism Ass'y		
C08	910 330 7238	COVER LNS TOP-MZ7A	L03	645 090 2697	OPTICAL FILTER (HCP)L
C09	910 330 7399	COVER LNS BTM-MZ7A	L04	645 090 2680	OPTICAL FILTER (HCP)R
C10	910 330 7573	DEC LED-MZ7A	L05	645 090 2697	OPTICAL FILTER (HCP)L
C11	910 295 3085	DEC LEG-MW6A	L15 945 088 7322 LENS,CONDENSER(OUT)		
C12	910 302 5613	DEC SHEET-M4JA	For CHASSIS NO. KC6-XT2000, KC6-XT20L00		
C13	910 330 7443	DEC AV SHEET-MZ7A	L02	(Including Key No. L02-1 to L02-4 and LCD panels)	
C14	910 330 7184	FILTER BASE-MZ7A	Type-L LCD Panel/Prism Ass'y		
C15	910 323 6767	HOLDER SPEAKER-MT5A	610 333 1980	ASSY,LCD PNL/PRISM RLR-KC6A	
C16	910 330 7191	PANEL AV-MZ7A	Type-R LCD Panel/Prism Ass'y		
C17	910 330 7368	PANEL LMP-MZ7A	610 333 1874	ASSY,LCD PNL/PRISM LRL-KC6A	
C18	910 330 7412	PANEL FILTER-MZ7A	L02-1 945 088 7568 POLARIZED GLASS(OUT/R)		
C19	910 330 7405	PANEL PRM-MZ7A	L02-2	945 088 7575	POLARIZED GLASS(OUT/G)
C20	910 330 7542	PANEL PJNET-MZ7A	L02-3	645 090 1942	POLARIZED GLASS(OUT/B)
C21	910 297 7920	SPACER COVER NWMG-MA8AA	L02-4	645 090 2307	PREPOLARIZED GLASS(OUT)
C22	910 297 7937	SPACER COVER SCREW NWMG-MA8AA	Parts for Type-L LCD Panel/Prism Ass'y		
C23	910 330 7436	SPRING BUTTON LNS-MZ7A	L03	645 090 2680	OPTICAL FILTER (HCP)R
CHASSIS PARTS			L04	645 090 2697	OPTICAL FILTER (HCP)L
M01	910 330 8334	COMPL,MOUNTING LNS-MZ7A	L05	645 090 2680	OPTICAL FILTER (HCP)R
(Including Key No. M01-1 to M01-3)			Parts for Type-R LCD Panel/Prism Ass'y		
M01-1	945 088 7681	ASSY,MOTOR LENS MZ7A	L03	645 090 2697	OPTICAL FILTER (HCP)L
M01-2	645 089 4886	UNIT,LENS,SHIFT-X	L04	645 090 2680	OPTICAL FILTER (HCP)R
M01-3	645 089 4893	UNIT,LENS,SHIFT-Y	L05	645 090 2697	OPTICAL FILTER (HCP)L
M02	910 330 7917	COVER DUCT PANEL TOP-MZ7A	L15 645 091 6007 LENS,CONDENSER(OUT)		
M03	910 330 8129	COVER DUCT PANEL IN-MZ7A	Common Parts		
M04	910 330 8204	HOLDER POL IN-MZ7A	L06	945 088 7520	PREPOLARIZED GLASS(IN)
M05	910 330 7795	HOLDER WV IN-MZ7A	L07	945 088 7537	POLARIZED GLASS(IN/R)
M06	910 330 7764	HOLDER CON BALLAST-MZ7A	L08	945 088 7544	POLARIZED GLASS(IN/G)
M07	910 330 8075	MOUNTING LNS CON A-MZ7A	L09	645 090 1935	POLARIZED GLASS(IN/B)
M08	910 330 7740	MOUNTING LNS REL A-MZ7A	L10	945 088 7223	ASSY,PRISM(PBS)
M09	610 331 9070	STOPPER THERM POL IN-MZ7A	L11	645 090 0600	LENS,PROJECTION-SM
M10	910 330 8082	OPTICAL BASE TOP-MZ7A	L12	945 088 7254	LENS,INTEGRATOR(IN)
M11	910 330 8310	OPTICAL BASE BTM-MZ7A	L13	645 091 5260	LENS,INTEGRATOR(OUT)
SCREWS			L14	945 088 7315	LENS,CONDENSER(IN)
S01	411 031 9304	SCR BIN 3X8	L16	645 091 5284	LENS,CONDENSER(G)
S02	312 069 7402	SPECIAL SCREW NI	L17	945 088 7346	LENS,CONDENSER(B)
S03	411 189 6507	BOLT HEX-SCT+SW+W 2.5X5	L18	945 088 7353	LENS,RELAY(IN)
S04	411 189 6606	BOLT HEX-SCT 2.5X6	L19	945 088 7360	LENS,RELAY(OUT)
OPTICAL PARTS			L20	945 088 7377	LENS,CONDENSER(R)
For CHASSIS NO. MZ7-XT2500, KC6-XT2000			L21	945 088 7384	MIRROR(W-COLD)
L01	645 090 0617	ASSY,LENS,PROJECTION	L22	945 088 7391	MIRROR(B)
(Including Key No. L011-1 to L01-3)			L23	945 088 7407	MIRROR(R)
L01-1	945 057 8497	MOTOR,LENS(F-UNIT)	L24	945 055 5405	DICHROIC MIRROR (G)
L01-2	945 057 8503	MOTOR,LENS(Z-UNIT)	L25	945 055 5412	DICHROIC MIRROR (B)
L01-3	945 055 5351	LENS,PROJECTION-LM	* There are 2 types (Type-L or Type-R) of LCD Panel/Prism Ass'y. Used type is indicatyed on the Prism Ass's and Cabinet top. Reffer to item "LCD Panel/Prism Ass'y Removal" for further information.		
For CHASSIS NO. MZ7-XT2500, MZ7-XT25L00					
(Including Key No. L02-1 to L02-4 and LCD panels)					
Type-L LCD Panel/Prism Ass'y					
	610 333 1867	ASSY,LCD PNL/PRISM RLR-MZ7A			
Type-R LCD Panel/Prism Ass'y					
	610 333 1850	ASSY,LCD PNL/PRISM LRL-MZ7A			
L02-1	945 088 7568	POLARIZED GLASS(OUT/R)			



Diagrams & Drawings

Schematic Diagrams Printed Wiring Board Drawings

Model	Chassis No.
PLC-XT25	MZ7-XT2500
PLC-XT25L	MZ7-XT25L00
PLC-XT20	KC6-XT2000
PLC-XT20L	KC6-XT20L00

These schematic diagrams and printed wiring board drawings are part of the service manual original for chassis No. MZ7-XT2500, MZ7-XT25L00, KC6-XT2000, KC6-XT20L00 models PLC-XT25/XT25L, PLC-XT20/XT20L. File with the service manual No. SM5110811-00

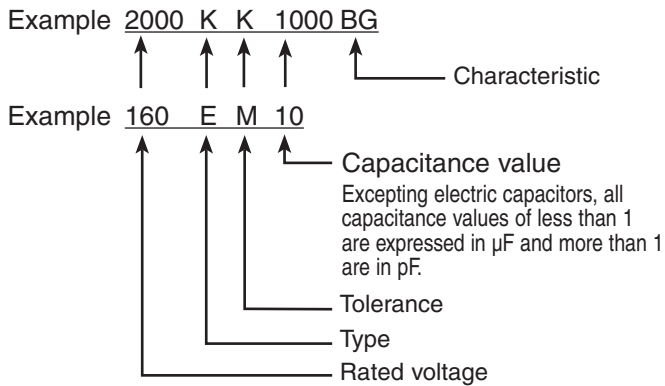
Note:

All the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal (1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading



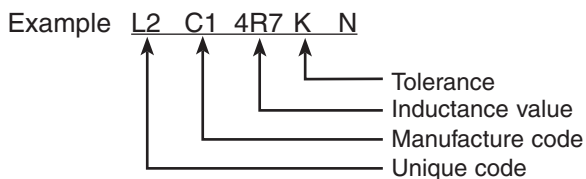
● Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypropylar
B	Ceramic (semiconductor)
G	Metalized polyester
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

● Tolerance table

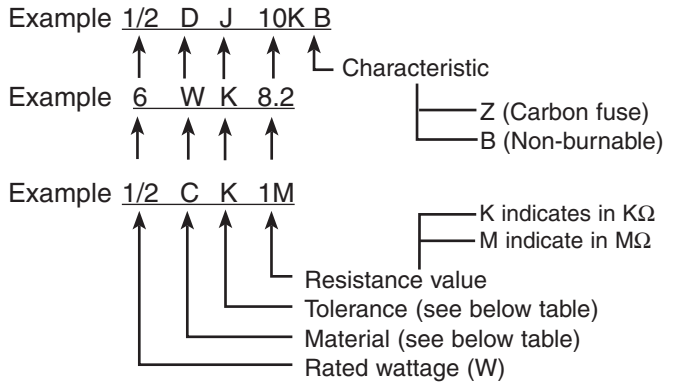
Mark	Tolerance
A	not specified
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
E	± 2.5
H	± 3
J	± 5
K	± 10
M	± 20
N	± 30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	± 0.25	G	± 2
D	± 0.5	J	± 5
S	± 0.3	K	± 10
A	± 0.2	L	± 15
		M	± 20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

● Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire winding or cement
H	Ceramic
F	Fusible

● Tolerance table

Mark	Tolerance
A	± 0.05
B	± 0.1
C	± 0.25
D	± 0.5
F	± 1
G	± 2
J	± 5
K	± 10
M	± 20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

● Diode

Mark	Type number
R	1S2076A, 1S2473, 1N4148
AA	1S2076A, 1S2473, 1SS133, 1N4148

● Transistor (1) NPN type

Mark	Type number
--	2SC536 2SC945A 2SC1815 2SC1740S
AD	NF, NG PA, QA Y, GR Q, R, S
AE	NF, NG PA, QA, RA O, Y, GR Q, R, S

(2) PNP type

Mark	Type number
--	2SA608 2SA564A 2SA1015 2SA933S
AB	NF R Y, GR R
AC	NF Q, R O, Y, GR Q, R

(3) Chip type

Mark	Type number
--	2SA1179N 2SA1037K 2SA1037AK 2SC2812/N 2SC2412K
AJ	M6, M7 R, S R, S
AH	L6, L7 R, S

Note on Soldering

Do not use solder containing lead.

This product has been manufactured using lead-free solder in order to help preserve the environment. Because of this, be sure to use lead-free solder when carrying out repair work, and never use solder containing lead.

Lead-free solder has a melting point that is 30–40 °C (86–104 °F) higher than solder containing lead, and moreover it does not contain lead which attaches easily to other metals. As a result, it does not melt as easily as solder containing lead, and soldering will be more difficult even if the temperature of the soldering iron is increased.

The extra difficulty in soldering means that soldering time will increase and damage to the components or the circuit board may easily occur.

Because of this, you should use a soldering iron and solder that satisfy the following conditions when carrying out repair work. Also, soldering work must be done in a short time.

Soldering iron

Use a soldering iron which is 70 W or equivalent, and which lets you adjust the tip temperature up to 450 °C (842 °F) It should also have as good temperature recovery characteristics as possible.

Solder

Use solder with the metal content and composition ratio by weight given in the table below. Do not use solders which do not meet these conditions.

Metal content	Tin (Sn)	Silver (Ag)	Copper (Cu)
Composition ratio by weight	96.5 %	3.0 %	0.5 %

Note:

If replacing existing solder containing lead with lead-free solder in the soldered parts of products that have been manufactured up until now, remove all of the existing solder at those parts before applying the lead-free solder.

A B —

C —

D —

E —

F —

G —

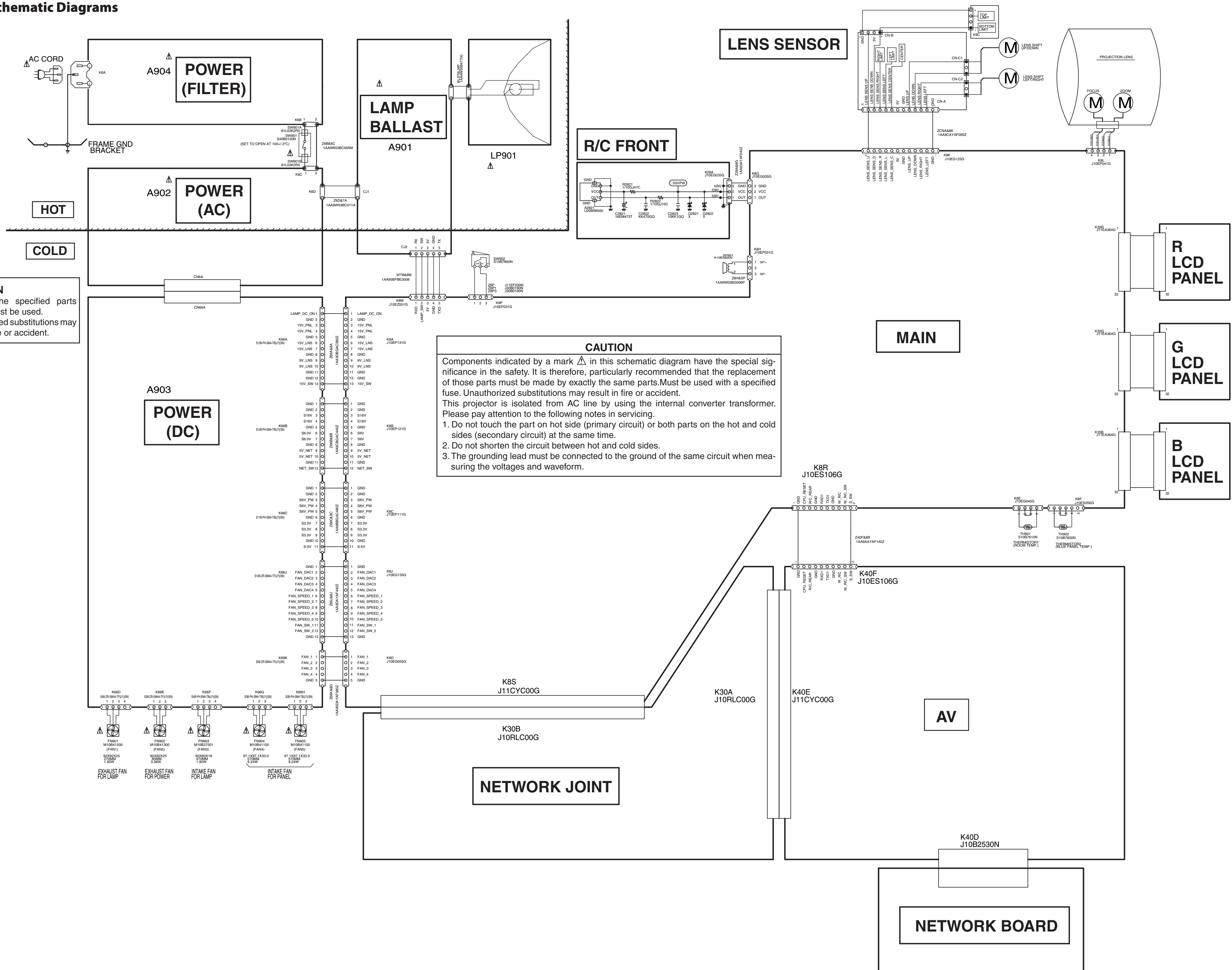
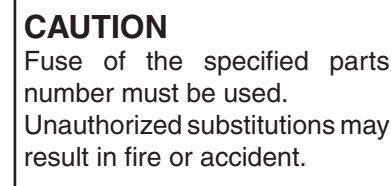
H —

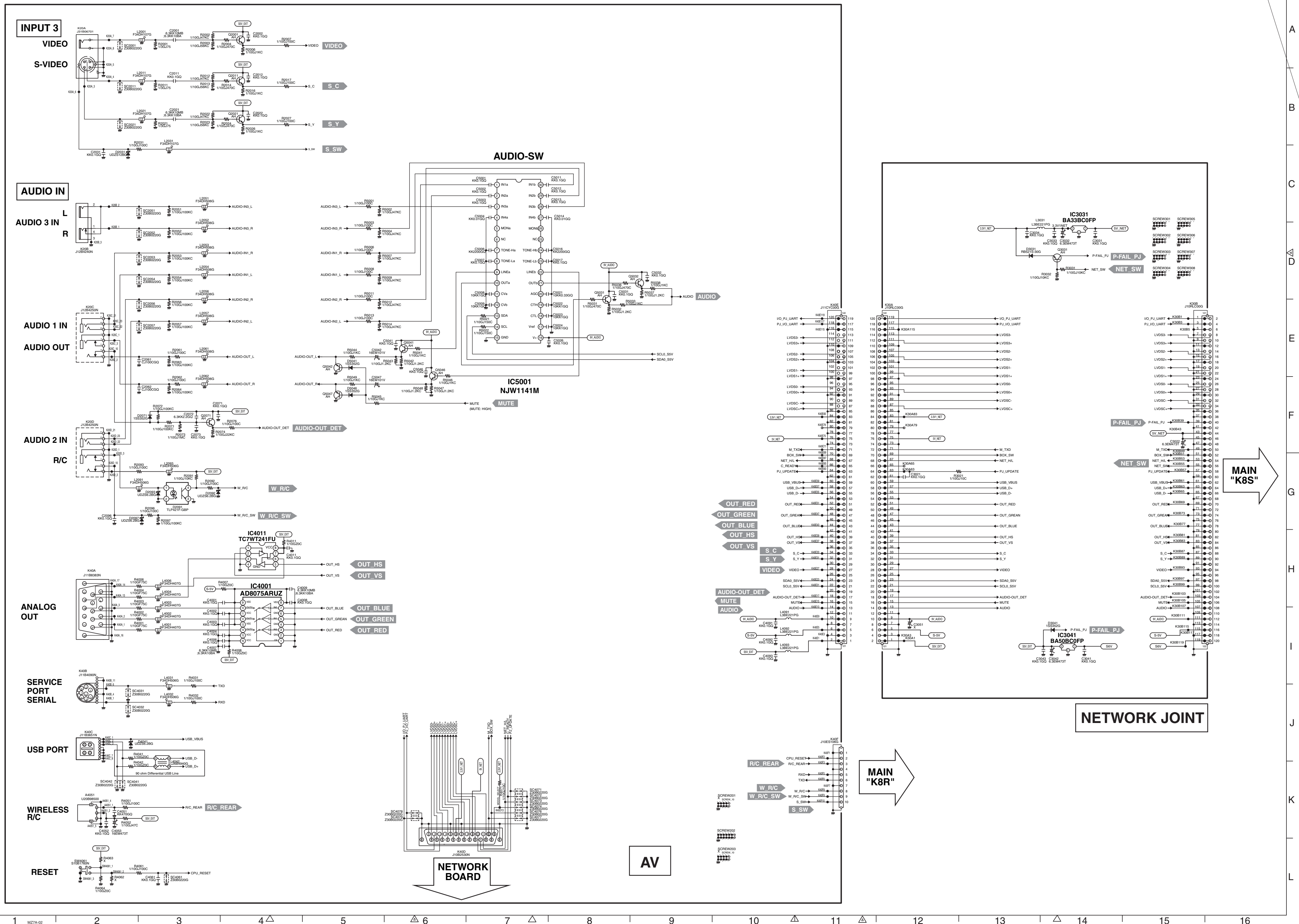
I —

J —

K —

L —





A

B

C

D

E

F

G

H

I

J

K

L

A

B

C

D

E

F

G

H

I

J

K

L

INPUT 1
DIGITAL
(DVI-D)

INPUT 2
Cb/Pb
Cr/Pr
G
Y
CV

INPUT 1
RGB
SCART

MAIN-1

AV
"K40F"

NETWORK
JOINT
"K30B"

DVI INTERFACE
IC8001
SII169CTG100

FPGA
IC7201
XC3S50

IC301
SCAN
CONVERTER

SYNC-SEP.
IC5321
BA7078AF

IC5341
SN74AHC2G14HDC73

DDR-SW
IC8131
TC7W53FU

DVI
HDCP
MEMORY
IC8101
24C02CT-1

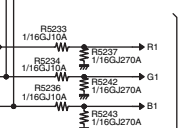
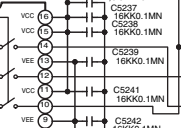
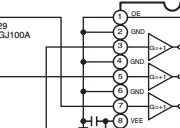
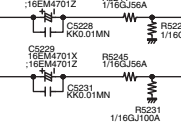
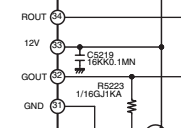
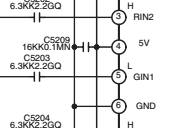
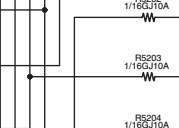
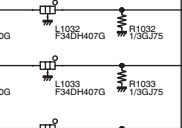
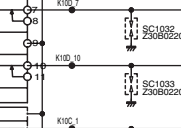
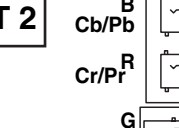
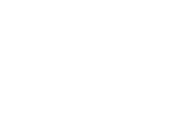
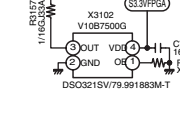
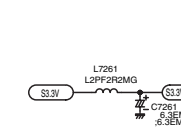
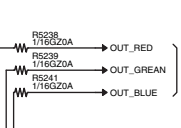
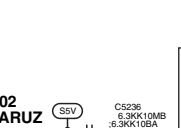
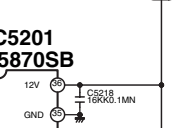
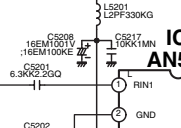
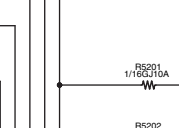
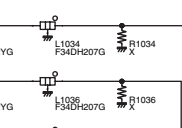
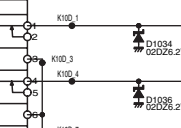
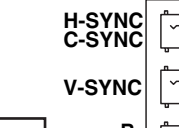
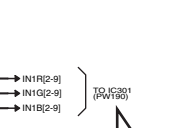
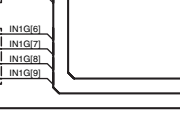
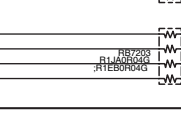
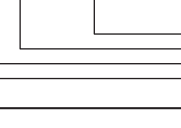
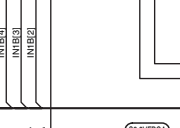
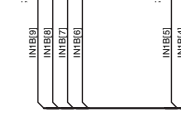
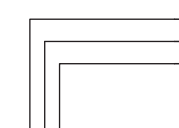
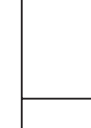
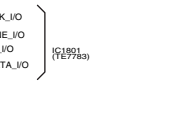
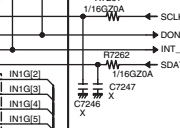
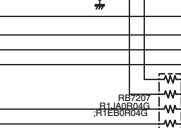
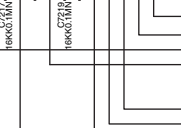
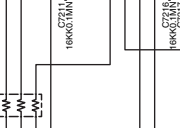
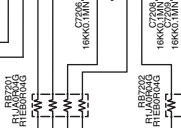
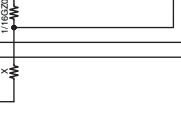
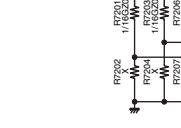
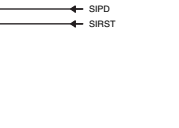
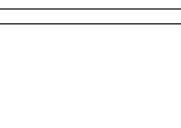
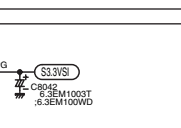
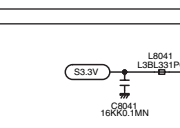
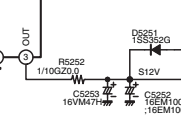
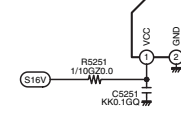
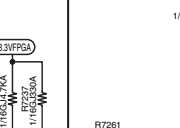
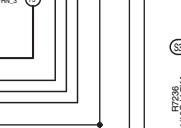
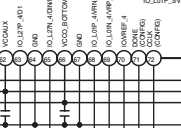
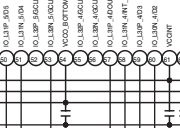
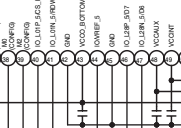
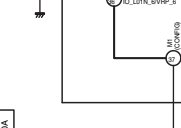
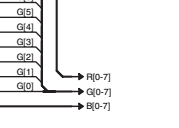
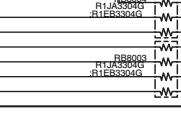
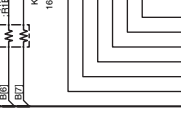
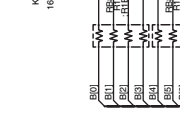
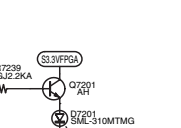
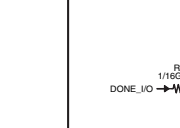
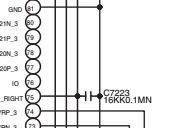
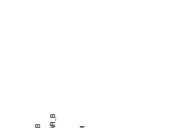
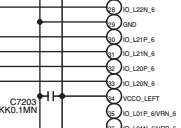
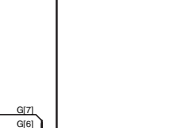
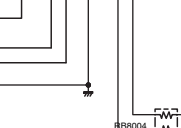
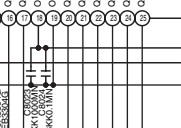
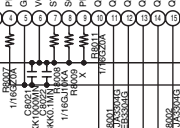
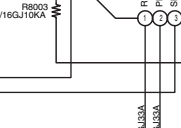
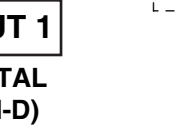
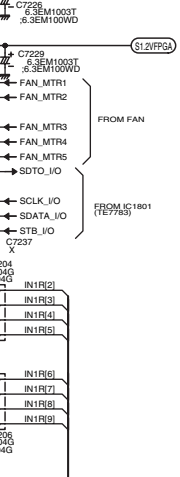
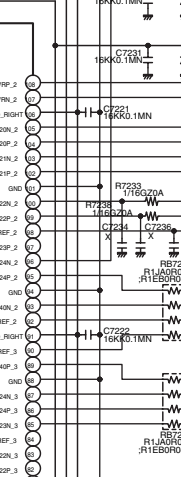
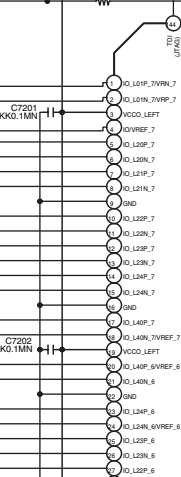
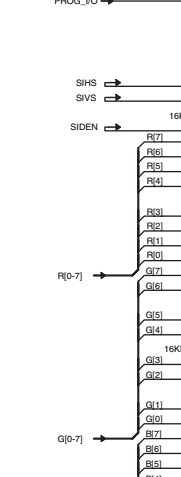
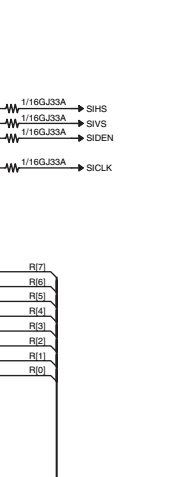
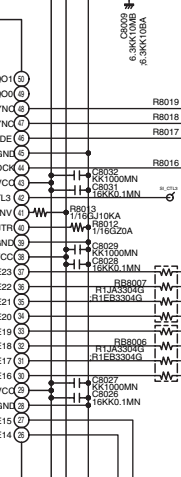
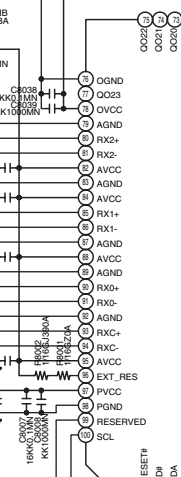
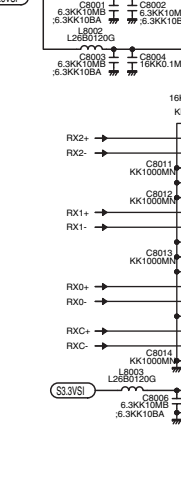
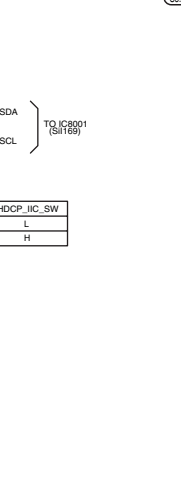
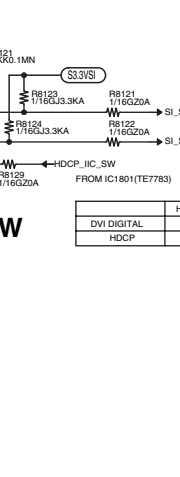
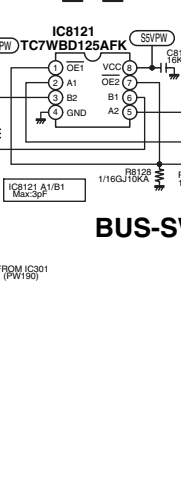
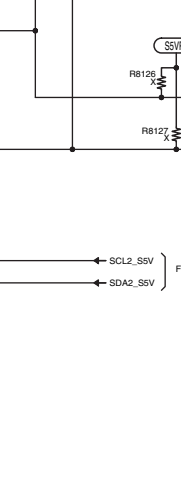
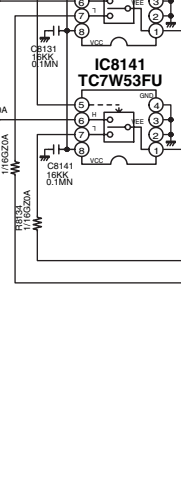
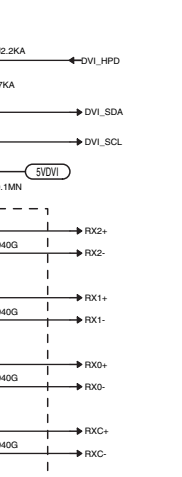
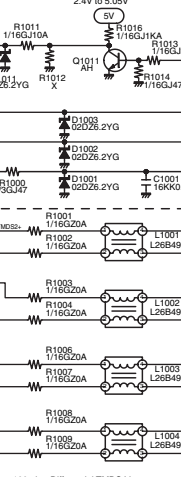
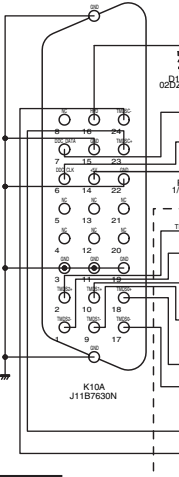
BUS-SW
IC8121
TC7WBD125AFK

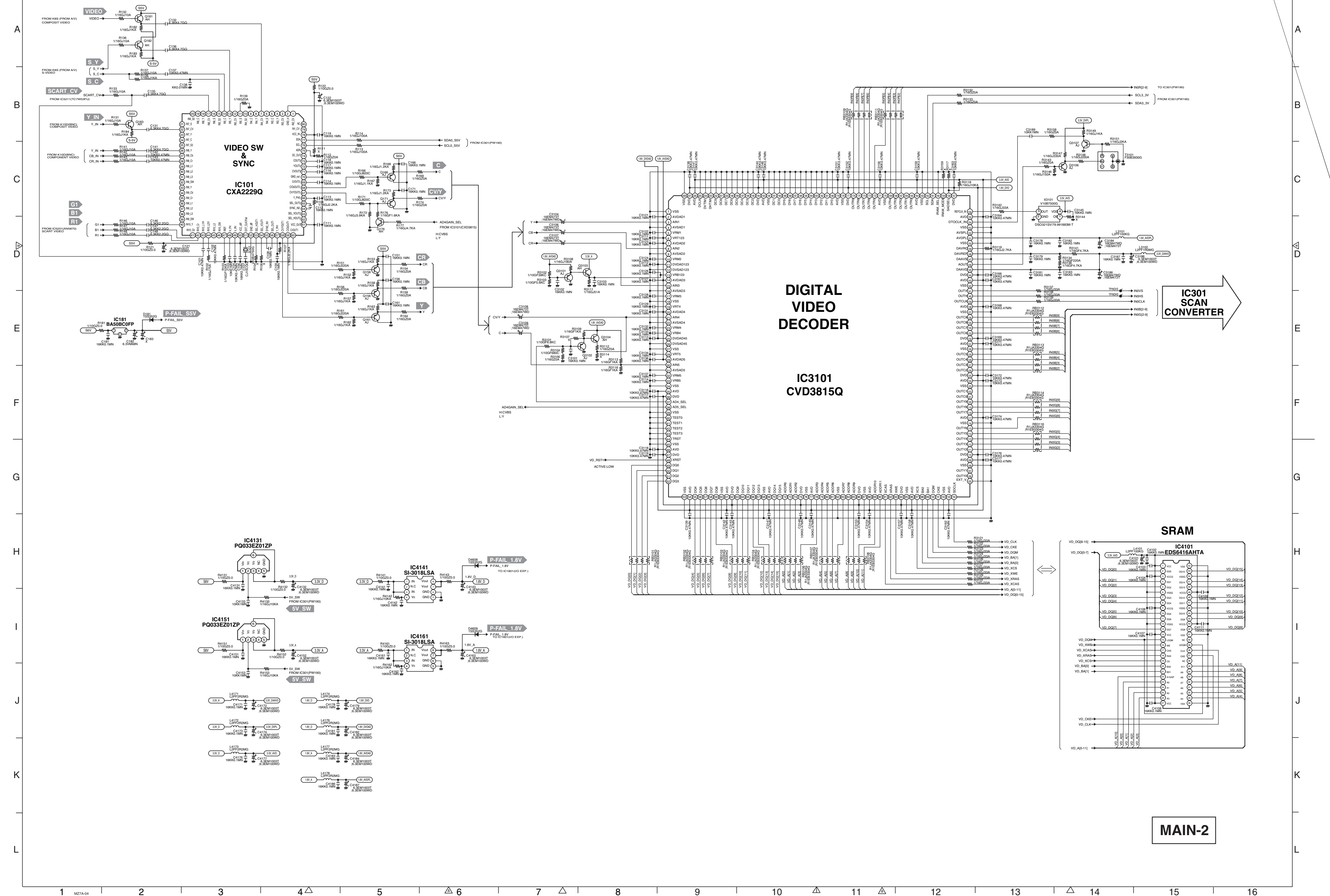
PC1/PC2-SW
IC5201
AN5870SB

IC5202
AD8074ARUZ

VGA
HDCD
MEMORY
IC1051
24LC21AT

DDC-SW
IC1041
TC74LVX4053FT





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IC3101
DIGITAL
VIDEO
DECODER

IC7201
FPGA

BUS-SW

BUS-SW

CONTROL
MEMORY

FLASH
MEMORY

BUFFER

SCAN CONVERTER
&
SYSTEM CONTROL

RS-232C
DRIVER

DC
CONVERTER

DDC
CONTROL

IC5601
FA7711V

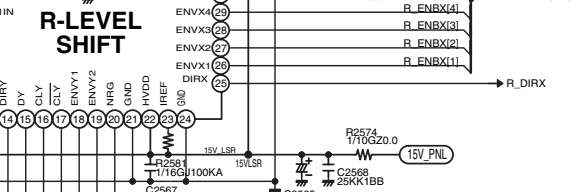
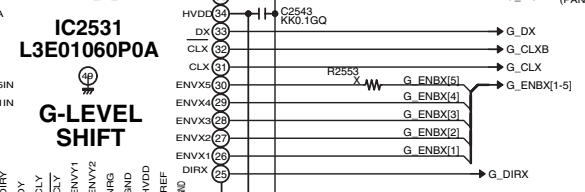
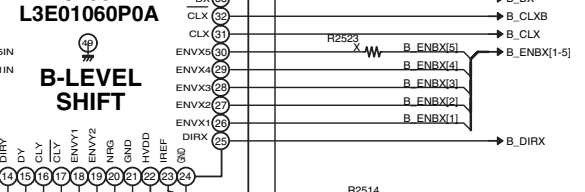
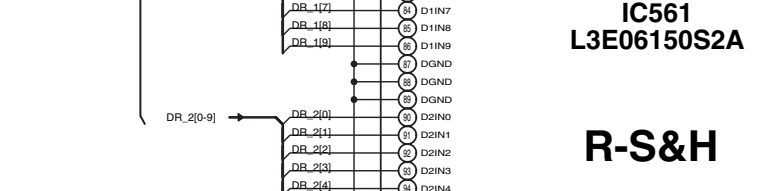
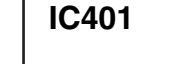
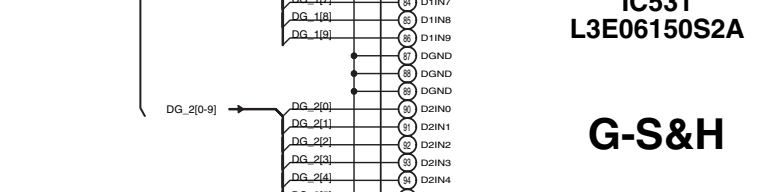
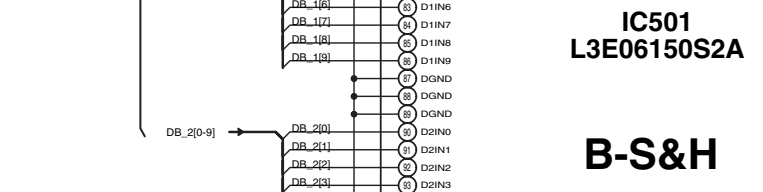
I/O
EXPANDER

IC1801
TE7783PF
;TE7783APF

BUFFER

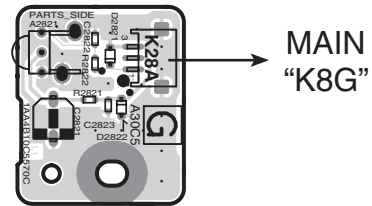
MAIN-3



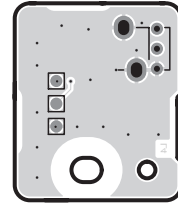


Printed Wiring Board Diagrams

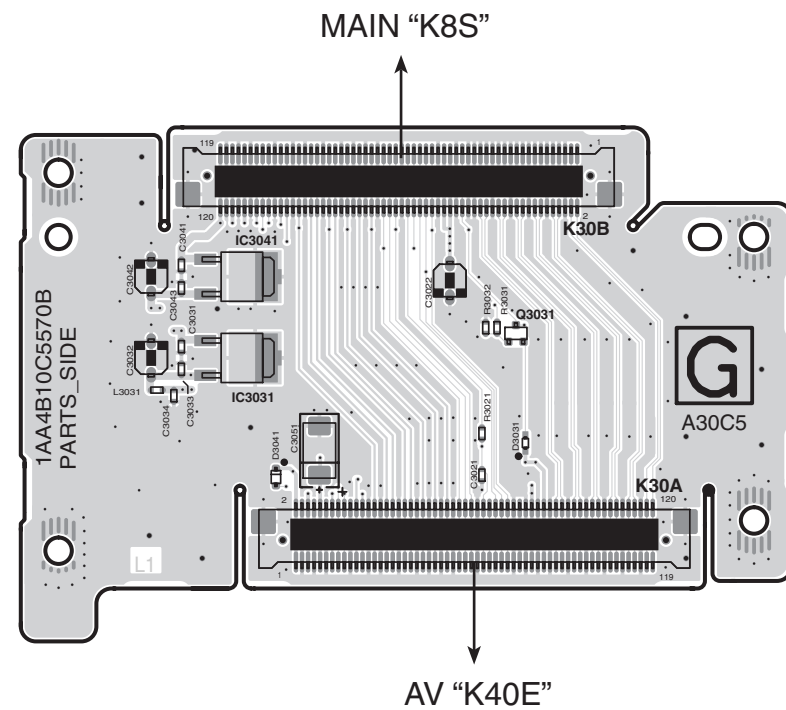
R/C FRONT (SIDE:A)



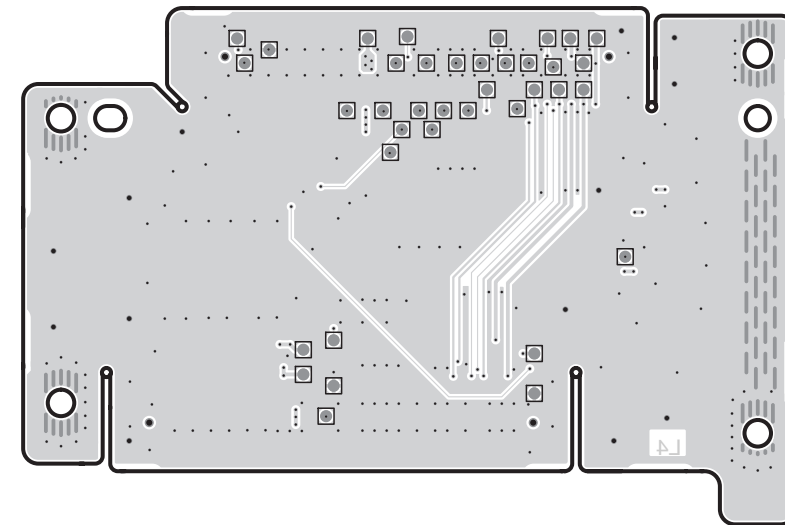
R/C FRONT (SIDE:B)



NETWORK JOINT (SIDE:A)



NETWORK JOINT (SIDE:B)



⚠ CAUTION

This projector is isolated from AC line by using the internal converter transformer. Please pay attention to the following notes in servicing

1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

ZOOM
FOCUS
MOTER

THERMISTOR
TH902

B-PANEL

G-PANEL

R-PANEL

LAMP

SW902

POWER(DC)
"K66K"

POWER(DC)
"K66C"

LAMP BALLAST "CJ2"

POWER(DC) "K66A"

POWER(DC) "K66J"

POWER(DC) "K66B"

NETWORK JOINT “K30B”

AV "K40F"

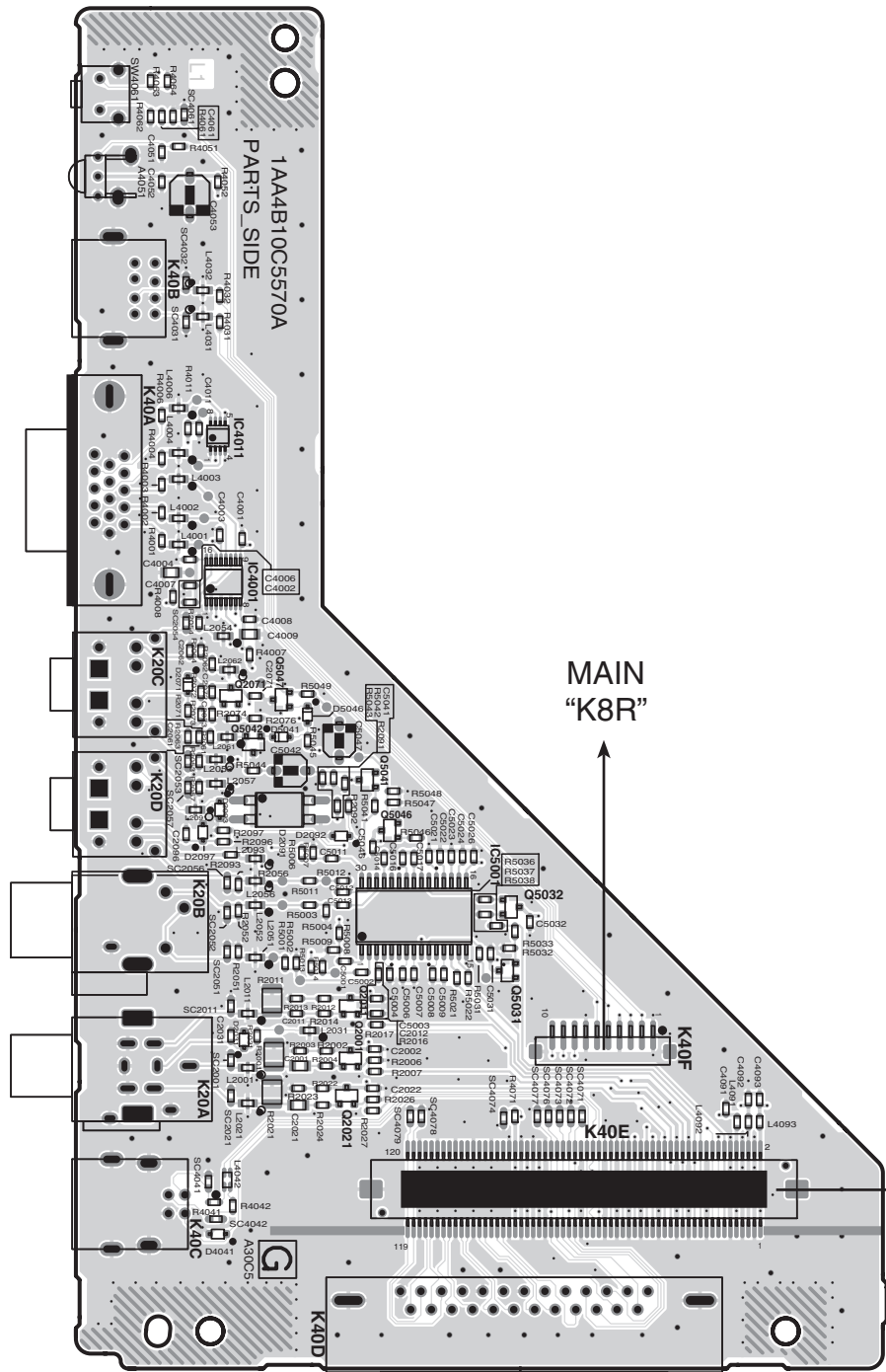
LENS SENSOR
"CN-A"

1st REFLOW

G
A30C5

LAMP

AV (SIDE:A)



AV (SIDE:B)

